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Sunset

The Magazine of Western Living

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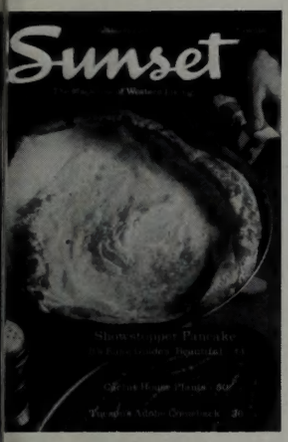

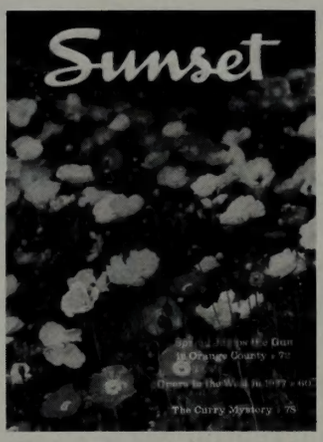

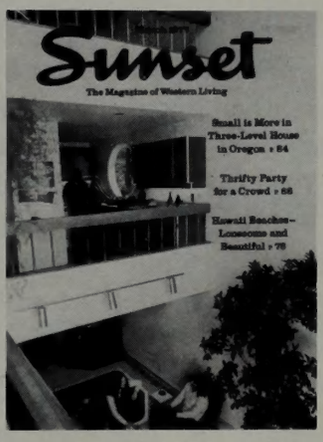

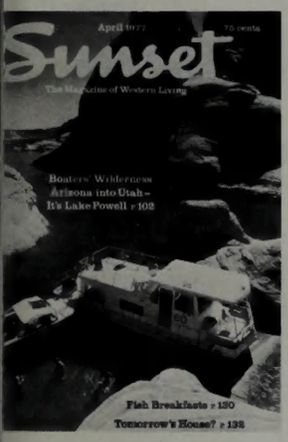

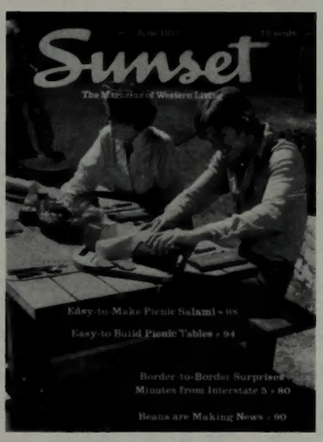

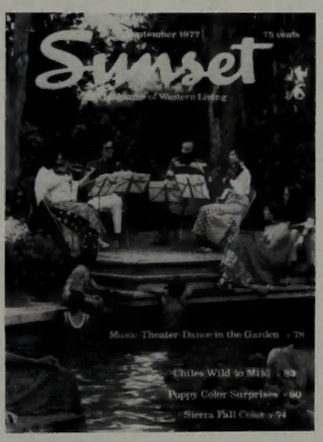

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Sunset
THE MAGAZINE OF WESTERN LIVING

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SUNSET *is published each month in four editions.* Because of the climate and other differences, many articles run in only one or two of the four editions. You can tell which edition of SUNSET you read by looking at the contents page of the magazine. At the upper left corner of the page you will see the name of the edition:

Northwest edition for Alaska, Washington, Oregon, Idaho, Montana, and Wyoming.

Central edition for northern and central California, northern Nevada, Utah, and Colorado.

Southern California and Hawaii edition for coastal Southern California and Hawaii.

Desert edition for southeastern California, southern Nevada, Arizona, and New Mexico.

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East Bay skyline trail, Richmond to San Leandro, Feb 38b C
Ferries, water-jet, Jan 21 N, S, D
Golden Gate National Recreation Area, Marin, California Marine Mammal Center, May 35 C
Health exhibits, tour, Jan 3 C
Horse rental stables, Bay Area parks, Oct 3 C
Lakes with rowboat rentals, July 3 C
Los Trancos open space preserve, Oct 6 C
Messiah sing-alongs, Dec 72 C
New state park north of Golden Gate, Jan 28 C, D
Planetariums, Feb 5 C
Richmond-San Rafael Bridge, cyclists' shuttle service, May 8 C
San Francisco International Airport, reaching from key Bay Area centers without driving, Dec 38 C
San Mateo County Bayside cleanup, May 120 all
Scientific research facilities, Oct 50 S, D
Skyline to the sea trail, June 50 C
Weather flags, Jan 21 C
San Jose
Band concerts, free, June 5 C
Downtown area, urban renewal, Nov 98 all
Formula Raceways, Sept 24 C
Gilbert and Sullivan Society of San Jose, plays, Mar 34 C
Happy Hollow Park and baby zoo, Easter activities, Apr 3 C
Roberto Adobe, July 54 C
San Jose Historical Museum, Sept 5 C
San Jose area, Monte Bello Ridge, guided hike, Mar 52 C
San Juan Bautista, August events, Aug 34 C
San Luis Obispo, Cal Poly, open house, Apr 4 S
San Luis Obispo County, Cayucos to Monterey County line, Oct 40 C, 74 S, D
San Mateo, Bay Meadows racetrack, guided tours, Apr 4 C
San Mateo County, Galen Wolf art, history show, May 5 C
San Pedro, whale fiesta, June 6 S
Santa Ana, Orange County Airport, Aug 42 all
Santa Barbara
Beach hike beneath Hope Ranch, Nov 3 S
Carriage museum, Aug 6 S
Museum of Natural History, American Indian arts and crafts show, July 8 S
Santa Barbara County bowl, outdoor concerts, June 35 S, D
Santa Barbara Historical Society Museum, doll collection, Nov 6 S
Santa Barbara Museum of Art, doll collection, Nov 4 S
Tree walk, Feb 59 S
University of California, open house, Apr 4 S
Santa Catalina Island, hiking, camping, biking into interior, Sept 58 all
Santa Clara, Triton Museum, chair-making show, Sept 6 C
Santa Cruz
Art activity guide, Aug 36 C
Bird life, Sept 63 C
University of California
Art galleries, sculpture, Dec 22 C
"Pacific Celebration", May 38 C

California (contd.)
Santa Monica
Automotive classics, May 56 all
KPFK International Merrie Christmas Fair, Dec 4 S
Main Street, browsing, shopping, July 38 S, D
Tree walks, Feb 59 S
Saratoga, Sanborn-Skyline County Park, walk-in campgrounds, July 57 C
Science fairs, No. Calif., Mar 4 C
Sequoia National Park, wilderness permits, Apr 4 S
So. Calif.
Andalusian horses, where to see, Aug 36 S
Archeology digs, societies, college courses, Oct 36 S, D
Arroyo Seco Canyon, exploring, Jan 38 S
Bike route maps, May 38b S, D
Nature study weekends, July 4 S
Philip Marlowe buffs' bus tour, Hollywood to Santa Monica, July 54 S, D
Snow slopes, artificial, July 28 S, D
Soccer games, public parks, Oct 30a S, D
Southwest adventure by Amtrak, bus, Dec 42 D
Visitors bureaus, Apr 46 all
Solvang, Theatrefest, June 35 S, D
Sonoma County
Farm trails map-guide, holiday outing, Dec 44 C
Healdsburg to Geyserville bike loop, May 38b C
Valley of the Moon, sampling four parks, Nov 42 C
Squaw Valley, Olympic training center, July 10 C
Stanford
Stanford Savoyards, Gilbert and Sullivan plays, Mar 34 C
Stanford University, sculpture tour, Nov 3 C
State parks, coastal day-use, RV overnight program, Oct 97 S, D
Stockton, band concerts, free, June 5 C
Sunnyvale, wildlife study center from little-used playground, Oct 24 C
Susanville area, Eagle Lake, camping, fishing, boating, bird watching, Aug 52 C
Sutter Buttes, guided tours, Sept 34 C
Sylmar, Merle Norman Tower of Beauty, vintage-car collection, May 55 all
Train trips, one-day, Jan 26 C, 28b S, D
Twentynine Palms, Joshua Tree National Monument, Desert Queen Ranch, Oct 24 S, D
Valencia, Magic Mountain, Spillikin Corners, craftsmen, Sept 5 S
Van Nuys, Busch Bird Sanctuary, Mar 74 all
Venice
Ocean front walk
Roller skating, Mar 3 S
Street performers, Aug 52 S, D
Ventura
Holiday street festival, Dec 41 S, D
Walking tour, Dec 41 S, D
Visalia area
Mooney Grove, Aug 63 C; Oct 7 S, D
Water filtration plants, So. Calif., Mar 52 S, D
West Hollywood, Pacific Design Center, Oct 48 all
Westwood, Contempo Westwood, shopping, dining, arts center, Feb 29 C, 30 S, D
Woodland, historical walking tour, Feb 6 C
Yosemite National Park, snow fun near south entrance, Mar 46 C, 48 S, D

Camping
Alpine County, Calif., Sept 74 all
Baja California, Tijuana-Mexicali-San Felipe-Ensenada loop trip, Apr 122 all
Big Sur, Calif. area, Sept 26 C, 63 S, D
Calif. coastal day-use parks, RV overnight program, Oct 97 S, D; Nov 64d C
Camping and outdoor recreation show, *Sunset* Magazine, Menlo Park, Calif., May 6 C
Goldbar, Wash., Wallace Falls, July 3 N
Kanab, Utah area, Coral Pink Sand Dunes State Reserve, June 42 all

Camping (contd.)
Lake Powell, Glen Canyon National Recreation Area, Ariz., Utah, Apr 102 all
Morgan Hill, Calif., Henry Coe State Park, Dec 24 C
Oahu, Hawaii, Windward and North-Shore Beach Parks, Mar 81 all
Santa Catalina Island, Calif., Sept 58 all
Saratoga, Calif., Sanborn-Skyline County Park, walk-in campgrounds, July 57 C
So. Calif. nature study weekends, July 4 S
Sonoma County, Calif. Hood Mountain Regional Park, Nov 42 C
Sugarloaf Ridge State Park, Nov 42 C
Susanville, Calif. area, Eagle Lake, Aug 52 C
Tent trailers, Mar 68 all
Valley of the Moon parks, Nov 42 C

Canada
Alberta
Cross-country ski centers, Dec 66 all
British Columbia
Calendar of events, Office of Tourism, Apr 6 N
Castlegar, Doukhobor Museum-Village, June 62 all
Farm produce shopping guides, June 50 N
Ladner area, George C. Reifel Sanctuary, winter waterfowl, Dec 23 N
141 Dives in the Protected Waters of Washington and British Columbia, book review, Apr 38 N
River run update, June 46 all
Vancouver
Capilano Canyon, May 40 all
Centennial Museum, Soviet space exhibit, Mar 4 N
Circle crafts cooperative, Nov 44 N, C, 52 S, D
Commercial Drive, Italian shops, Nov 42 N
Muckamuck Restaurant, Indian food, Jan 28b C
Museum of Man, Northwest Coast Indian art, Feb 5 N
Pacific Centre mall, Jan 25 N
Park & Tilford gardens, July 150 N
Sea bus, passenger ferries, Dec 44 N
Society for Creative Anachronism events, Aug 36 N
Symphony concert hall, Oct 80 all
Vancouver terminal, visitor observation lounge, Dec 41 N
Victoria
Empress Hotel, jazz weekend, Nov 4 N
Empress Hotel, tea time, June 66 all
Winery Trails of the Pacific Northwest, book review, Sept 6 N
Yellowhead Highway adventure, July 40 all
Ontario
Toronto, underground commercial development, Nov 38 all

Central and South America
Guatemala, Lake Atitlan, weaving workshops, May 91 all

Colorado
Aspen area, dog sled back-country tour, Dec 60 all
Boulder
Messiah sing-along, Dec 72 C
Walden Ponds wildlife habitat, converted mine pit, Nov 60 all
Central City, opera 1977, Feb 60 all
Colorado Springs
Fine Arts Center
Ironwork display, Christmas tree festival, Dec 4 C
Mimbreño pottery, May 49 all
Cross-country ski centers, Dec 63
Curling clubs, Nov 86 all
Denver
Band concerts, free, June 5 C
Denver Public Library, TimeAlive! program, Aug 58 all
Downtown shuttle bus service, Aug 46 all

Colorado (contd.)
Denver (contd.)
Mint, July 33 N, C
Rediscovering Northwest Denver, book review, Apr 4 C
Rocky Mountain states, welcome to *Sunset'* territory, Apr 316 all
Vail, Ski Museum, Nov 68 all

Cruises and Boat Trips
Cap Haitien, Haiti, Oct 53 all
Edmonds-Kingston-Point No Point, Wash., ferry-bike cruise, Oct 74 N
Havana, Cuba, fly-cruise program, Dec 30 a
Los Angeles harbor cruise, Sept 36 S
Newcastle, England to Bergen, Norway by ferry, Jan 18 all
Newport Bay, Calif., harbor cruises, Oct 6 S
San Francisco Bay, water-jet ferries, Jan 21 N, S, D
San Francisco to Sacramento, river/bay cruise Sept 34d C

Desert
Baja California, Tijuana-Mexicali-San Felipe Ensenada loop trip, Apr 122 all
Death Valley Junction, Calif., Amargosa open house, hotel, Nov 66 all
Dog racing, desert and sled, Ariz., Jan 3 D
Lancaster, Calif., California desert seminar, Apr 6 D
Tucson area, Arizona-Sonora Desert Museum Congdon Earth Sciences Center, May 66 S, I Desert geology and caves, Oct 50 N, C
Twentynine Palms, Calif., Joshua Tree Nationa Monument, Desert Queen Ranch, Oct 24 S, I
Superior, Ariz. area, Boyce Thompson Southwestern Arboretum, Picket Post trail, Apr 88 all

Europe
Denmark
Copenhagen, tours, social institutions, industrial arts, Apr 56 all
England
Brass rubbing studios, Feb 34 all
Channel Islands, May 92 all
Glastonbury, abbey ruins, Apr 66 all
London, Syon Park, gardens, aviary, aquarium, June 214 all
Newcastle to Bergen, Norway by ferry, Jan 18 all
Romsey area, Hillier Gardens and Arboretum July 156 N
France
Beaune, wine-making center, Mar 42 all
Lyon, loop drive through La Dombes, Oct 92 C, S, D; Nov 64d N
Hardware shopping for your home, Mar 155 al
Netherlands, The
Rotterdam, Delfshaven, Pilgrim Church, Nov 62 all
Three to six-day hikes, all-inclusive, Apr 78 al
Norway, Bergen to Newcastle, England by ferry, Jan 18 all
Portugal
Lisbon, transit-lover's tour, Sept 40 all
Spain
Jerez de la Frontera, wine cellars, Sept 30 al
Switzerland
Mountaintop adventures, riding up, hiking down, June 74 all
Wales
Cardiff, museums, Aug 60 all

Exhibits and the Arts
Air Force, World War II, display, Phoenix area, Sept 6 D
Air Museum, Pima, near Tucson, Nov 3 D
Antiquities, Edward-Dean museum, Cherry Valley, Calif., Dec 72 S, D
Arboretum preview, California State University, Fullerton, Mar 4 S

xhibits and the Arts (contd.)
rchitectural award winners, *Sunset*, in West, Oct 49 all
rchitectural walk, California St., San Francisco, Aug 38d C
rchitecture show, Greene Brothers, Los Angeles, Jan 16 S, D
rt activity guide, Santa Cruz, Calif., Aug 36 C
rt auction, Los Angeles County Museum of Art, Nov 41 S, D
rt buses, Seattle, Dec 46 all
rt galleries, sculpture, University of California Santa Cruz, Dec 22 C
rt gallery, Ballard landmark district, Seattle, Nov 6 N
rt prints by mail, Northwest artists, Feb 8 N
rt walk, La Cienega Blvd., Los Angeles, May 64 S, D
rt, billboard, San Francisco, Nov 23 C
rt, films, bluegrass, Old Tucson, Ariz., Oct 6 D
rt, Ghanaian, UCLA, Oct 78 all
rt, history show, Galen Wolf, San Mateo County, Calif., May 5 C
rt, Indian, Museum of Man, Vancouver, B.C., Feb 5 N
rt, prehistoric, intaglios, near Blythe, Needles, Calif., Apr 61 all
rt, rodeo, Mexican culture, VIC-Expo, Napa, Calif., May 6 C
rt, Stony Ridge Winery, Pleasanton, Calif., July 4 C
rtifacts, borrowing, Museum of Natural History, Los Angeles, San Diego, Dec 24 S, D
rts 'n' Parks, Salt Lake City, July 4 C
rts and crafts fair, Albuquerque, June 6 D
rts, crafts, Maude Kerns Art Center Christmas sale, Eugene, Ore., Dec 3 N
rts festival, Celebration '77, Spokane, July 4 N
rts, festival Sacramento, Sept 6 C
rts festival, Salt Lake City, June 6 C
rts, health seminars, Arcosanti, Ariz., Sept 8 D
ustralian art, San Francisco's California Academy of Sciences, Nov 6 C
ustrian weekend, Mount Hood, Ore., Apr 3 N
utos, Grand Prix Concours d'Elegance, Long Beach, Mar 6 S
ach Festival, Mount Angel, Ore., May 66 N
and concerts, free, Denver, Reno, Oakland, Sacramento, San Francisco, Stockton, San Jose, June 5 C
elly dance festival, Seattle, Sept 8 N
irds, Seacliff Village shopping center, Huntington Beach, Calif., June 5 S
ook fair, Tucson, Nov 6 D
rewery tours, Northwest cities, Oct 3 N
utton Society, National, convention, Portland, Oct 4 N
amera show, Pasadena, May 6 S
amping and outdoor show, Menlo Park, Calif., May 6 C
ar museums, auctions, concours, So. Calif., May 55 all
arriages, antique, Santa Barbara, Aug 6 S
hair-making show, Santa Clara, Calif., Sept 6 C
hristmas caroling, holiday street festival, Ventura, Calif., Dec 41 S
hristmas fair, international, Santa Monica, Calif., Dec 4 S
hristmas holiday events, Seattle Center, Dec 24 N
hristmas tree festival, Colorado Springs, Colo., Dec 4 C
ivil war reenactment, Fort Tejon Park, Gorman-Lebec area, So. Calif., June 50 S, D
lown classes, San Diego, July 3 S
ollege campus open houses, So. Calif., Apr 4 S
oncerts, fiestas, Civic Plaza, Albuquerque, Sept 5 D
oncerts, folk music, Darrington, Wash., Aug 23 N
oncerts, Orchestra of Santa Fe, Nov 4 D
oncerts, Temple of Music and Art, Tucson, Jan 6 D
raft exhibit, touring, Pasco, Wash., Laramie, Wyo., Dec 4 N

Exhibits and the Arts (contd.)
Craft, performing arts events, Los Angeles area, July 3 S
Crafts Co-op, Vancouver, B.C., Nov 44 N, C, 52 S, D
Crafts fair, Pacific states, San Francisco, Aug 3 C
Crafts, Hollyberry Fair, Souverain Winery, near Healdsburg, Calif., Nov 4 C
Crafts, performing arts festival, South Lake Tahoe, Calif., July 4 C
Crafts, Saturday market, Eugene, Ore., Nov 23 N
Craftsmen, Spillikin Corners, Magic Mountain, Valencia, Calif., Sept 5 S
Craftsmen, Timberline Lodge, Mount Hood, Ore., Oct 6 N
Creative Anachronism, Society for, Aug 36 N
Cultural Center from unneeded school building, Logan, Utah, Aug 62 N
Dance program, Amargosa opera house, Death Valley Junction, Calif., Nov 66 all
Dickens events, No. Calif., Dec 3 C
Disneyland shop, Anaheim, Calif., Jan 4 D
Doll collections, Santa Barbara, Nov 4 S
Environmental fair, Jacques Cousteau, Seattle, Oct 4 N
Farming museum, Olmstead Place State Park, Ore., May 6 N
Film clubs, classes, Los Angeles area, Sept 24 S, D
Firehouse Museum, San Diego, Jan 27 S, D
Flags, banners, and kites, international festival of, Seattle, July 57 N
Folk dances, Balkan, Portland, June 6 N
French wine, food, dancers, French Hospital, San Francisco, Apr 3 C
Frontier skill contests, near Grants Pass, Ore., Aug 3 N
Gauguin, Museum, Tahiti, Nov 34 all
Gem and Mineral Society Show, Lake Havasu City, Ariz., Oct 4 D
Gilbert and Sullivan plays, San Francisco Bay area, Mar 34 C
Greek Orthodox community celebration, Portland, Oct 6 N
Handbell ringers festival, Tacoma, June 40 N
Hardware trade show, "First New Earth Exposition", San Francisco, Mar 33 C
Hawaiian antiquities, Ostheimer collection, San Francisco, Mar 21 C, S, D
Health exhibits, San Francisco Bay area, Jan 3 C
Heritage fair, Heritage Square, Los Angeles, June 5 S
Hershey chocolate plant, Oakdale, Calif., July 37 C
Historic building restorations, Heritage Square, Los Angeles, Jan 3 S
Historical tour, Queen Anne Hill district, Seattle, Feb 30 N
Home tour, international bazaar, Phoenix, Nov 4 D
Home tour, turn-of-the-century, Redlands, Calif., Dec 42 S
Homes, Queen Anne tour, Seattle, Sept 6 N
Horse show, Arabian and half-Arabian U.S. National Championships, Albuquerque, Aug 36 D
Horse stable tour, Burbank, Calif., Oct 4 S
Horse-drawn vehicles, Yakima Valley Museum, Yakima, Wash., July 27 N
House, energy-efficient, Portland, July 8 N
House tour, La Jolla, Calif., Oct 4 S
Indian artifacts, Lost City Museum of Archaeology, Overton, Nev., Nov 64 all
Indian arts and crafts of Northwestern Mexico, Phoenix, May 68 all
Indian arts and crafts fair, Yakima, Wash., Mar 9 N
Indian crafts, dances, Santa Barbara Museum of Natural History, July 8 S
Indian dances, arts and crafts, Puye cliff dwelling, N. Mex., July 4 D
Indian folk-art workshops, Idyllwild, Calif., Apr 74 S, 71 D

Exhibits and the Arts (contd.)
Indian pottery, artwork, Museum of Man, San Diego, July 8 S
Ironwork display, Colorado Springs, Colo., Dec 4 C
Japanese festival, Riverside, Calif., June 38 S, D
Japanese summer festival, Concord, Calif., Aug 4 C
Jazz & heritage festival, New Orleans, Apr 98 all
Jazz weekend, Victoria, B.C., Nov 4 N
Jet Propulsion Laboratory open houses, Pasadena, Jan 3 S
La Brea discoveries, George C. Page Museum, Los Angeles, Apr 64 all
Lapidary club show, Tucson, Oct 4 D
Latvian song festival, Los Angeles, July 4 S
Legislation, percentage-for-art, Nov 272 all
Lindbergh memorabilia, International Aerospace Hall of Fame, San Diego, May 34 S, D
Logging contests, Sawdust Festival, Payson, Ariz., July 3 D
Marine life exhibit, Port Gamble, Wash., Jan 6 N
Medieval, sport, music events, Robin Hood Festival, Sherwood, Ore., July 8 N
Melodramas, Columbia, Calif., July 48 all
Messiah sing-alongs, Dec 72 N, C, 4 D
Mint-museums, Denver, Carson City, San Francisco, July 33 N, C
Mosaics, Los Angeles County Museum of Art, Apr 71 S
Movie experience, studio touring, Los Angeles, Sept 64 all
Movies, silent, organ music, Sherwood Oriental Theater, Sherwood, Ore., Sept 21 N
Museum, historical, San Jose, Calif., Sept 5 C
Museums, Cardiff, Wales, Aug 60 all
Music festival, Cabrillo, programs, San Juan Bautista, Calif., Aug 34 C
Music festival, Rancho Murieta, Calif., Oct 4 C
Music, mime, San Francisco, June 6 C
Music, theater, outdoor, So. Calif., June 35 S, D
Nativity story reenactment, Cave Creek, Ariz., Dec 3 D
Opera Guild, Reno, Aug 4 C
Opera House fair, San Francisco, Oct 97 C
Opera in the West 1977, Feb 60 all
Opera Theatre, Santa Fe, backstage tours, July 30 all
Oregon trail historical displays, on Interstate 80 N, Mar 54 all
Organ, recitals, choir rehearsals, Mormon Tabernacle, Salt Lake City, May 58 all
"Pacific Celebration," Santa Cruz, Calif., May 38 C
Painting replicas, wall, Chinese Cultural Foundation, San Francisco, Feb 6 C
Performing Arts Center, San Jose, Nov 102 all
Performing arts, Music Hall and Little Theatre, Tucson, Jan 28 S, 42 D
Photographic exhibit, Tucson's Barrio districts, Oct 6 D
Photography workshops, Museum of Northern Arizona, Flagstaff, Apr 4 D
Planetarium shows, San Francisco Bay area, Feb 5 C
Pottery display, Quezada, Arizona State Museum, Tucson, Dec 6 D
Pottery, Mimbreño, Albuquerque, N.Mex., Colorado Springs, Colo., May 49 all
Poultry shows, Jan 98 all
Puppet jam session, Kirkland, Wash., May 38 N
Puppetry events, Los Angeles to Vancouver, Aug 80 all
Puppetry workshops, theaters, Aug 35 S, D
Railroad model, King Street Station, Seattle, May 11 N
Railway Museum, Orange Empire, Perris, Calif., Apr 37 S, D
Railway Museum, Rio Vista, Calif., May 5 C
Rug auctions, Navajo, Crownpoint, N. Mex., Oct 3 D
Santa Claus history display, Crocker Art Gallery, Sacramento, Dec 4 C
Science fairs, No. Calif., Mar 4 C
Sculptures, Golden Gate Park, San Francisco, Oct 36 N, C

Exhibits and the Arts (contd.)
Sculptures, *The Sky Tree*, Embarcadero Center, San Francisco, Nov 272 all
Sculpture tour, Stanford University, Stanford, Calif., Nov 3 C
Shakespeare Festival, Scottsdale, Ariz., Sept 36 D
Shakespeare, outdoor, Tucson, June 8 D
Ski Museum, Vail, Colo., Nov 68 all
Sound-light show, Triforium, Los Angeles Mall, Mar 36 S, D
Space exhibit, Soviet, Vancouver, B.C., Mar 4 N
Spanish colonial art shopping, folk art show, Santa Fe, N. Mex. area, May 94 all
Square dancers' convention, Sacramento, Apr 4 C
Steam beer brewery tour, San Francisco, Apr 58 all
Steinbeck exhibit, Salinas, Calif., Mar 40 all
Street performers
Cannery, The, Ghirardelli Square, San Francisco, Nov 51 C
Los Angeles, San Diego, Aug 52 S, D
Symphony Concert Hall, Vancouver, B.C., Oct 80 all
Symphony rehearsals, San Francisco, Feb 6 C
Theater, Black Swan, Oregon Shakespearean Festival, Ashland, Apr 48 all
Theater, dining, Sea-Tac International Airport, Wash., Apr 44 N
Theater, new mime circus, Eugene, Ore., Feb 6 N
Timber exhibit, Port Gamble, Wash., Jan 6 N
TimeAlive program, Denver Public Library, Aug 58 all
Trails West, outdoor musical theater, Walla Walla, Wash., July 38 N
Tricultural fest, Parker, Ariz., Sept 6 D
Water exhibits
Applied Aquatic Resources Institute, San Francisco, Fresno Fair, Oct 42 C
Los Angeles County Fair, Pomona, Sept 6 S
Water filtration plant tours, So., Calif., Mar 52 S, D
Watercolor exhibit, English, Phoenix, Mar 6 D
Weaving workshops, Lake Atitlan, Guatemala, May 91 all
Whale fiesta, San Pedro, Calif., June 6 S
Whistle-off, Carson City, Nev., Oct 4 C
Wild West show, Scottsdale, Ariz., July 4 D
Wild West skits, Globe, Ariz., Aug 38 S, D
Wool fair, Sumner, Wash., May 6 N
Yacht parade, arts and crafts fair, Marina Del Rey, Calif., May 6 S

Fishing
Alpine Lakes Wilderness, Cascade Mts., Wash., Apr 42 N
Bass, black, bluegill, Annadel Park, Sonoma County, Calif., Nov 42 C
Bass, bluegill, Henry Coe State Park, Morgan Hill, Calif., Dec 24 C
Big-game, Cabo San Lucas, Baja California, Oct 82 all
Fishing facilities for handicapped, Spring Lake Park, Sonoma County, Calif., Nov 42 C
Lake Powell, Glen Canyon National Recreation Area, Ariz., Utah, Apr 102 all
Perch, striped bass, George Miller, Jr. Regional Shoreline Park, Richmond, Calif., Aug 6 C
Salmon, Puget Sound, Wash., Apr 92 all
San Francisco Bay area, East Bay Regional Park lakes, May 66 C
Steelhead, Commodore Park, Seattle, Dec 6 N
Steelhead, salmon, trout, Waterloo Park, Ore., Feb 48 N
Steelheading, Wash. rivers, new rules, Nov 74 all
Surfperch, West Coast, Feb 50 N, 48 C, S, D
Trout, Alpine County, Calif., Sept 74 all
Trout, Eagle Lake, Susanville, Calif., Aug 52 C
Trout, Golden, Wilderness study area, near Lone Pine, Calif., Aug 24 C
Trout, Seep Lakes, Vantage, Wash., Oct 92 N
Trout, wild, Hat Creek and Fall River, Burney, Calif. area, June 68 all

Hawaii
Beautiful Hawaii, Sunset book, soft-cover format, Nov 77 N, 88 C, S, D
Hanauma Bay, Oahu, coastal hike to Halona Blowhole, Nov 36 all
Hawaiian antiquities, Ostheimer collection, San Francisco, Mar 21 C, S, D
Hilo, tropical plant nurseries, Aug 44 N, C
Honolulu
Chinatown walking tours, Aug 50 all
Honolulu marathon, Dec 48 all
Opera 1977, Feb 60 all
Kauai, wayside churches, Apr 32 all
Molokai
Island tour, Oct 122 all
Kalaupapa, leper colony, Oct 94 all
Oahu, Windward and North-Shore side of Koolau Mts., Mar 78 all

Hiking
Alpine County, Calif., Sept 74 all
Arroyo Seco Canyon, So. Calif., Jan 38 S
Bear-safe park visits, June 38 N, C, 254 S, D
Big Pine, Calif. area, Palisade Glacier, Aug 56 S, D
Cascade Mts., Wash.
Alpine Lakes Wilderness, Ingalls Creek Valley, Apr 42 N
Dickerman Mountain, June 6 N
Excelsior Mountain, July 10 N
Mount Baker, Heliotrope Ridge, Apr 40 N
Chiwaukum Mountains, Wash., cross-country hiking, Sept 26 N
Claremont, Calif., exploring, Mar 46 S, D
Compass, choosing, Jan 32 all
Eugene, Ore., Spencer Butte, Apr 74 N
Eugene, Ore. area, Buford Recreation Area, Nov 3 N
Felton, Calif., Henry Cowell Redwoods State Park, Fall Creek unit, Nov 6 C
First-aid, survival books for backpackers, Mar 50 all
Glendale, Calif., Verdugo Mts., Small Wilderness Area Preservation outing, Feb 5 S
Goldbar, Wash., Wallace Falls, improved trail, July 3 N
Hanauma Bay, Oahu, coastal hike to Halona Blowhole, Nov 36 all
Hiker's Guide to the Oregon Coast Trail, A, book review, Nov 4 N
Hiking the Gifford Pinchot Back Country, book review, Sept 24 N
Kings Canyon National Park, Calif., wilderness permits, Apr 4 S
La Jolla, Calif., beach hike to Black's Beach, Nov 4 S
Linn County, Ore., Waterloo, McDowell Creek Falls Parks, Feb 48 N
Lone Pine, Calif. area, Golden Trout Wilderness study area, Aug 24 C
Malibu, Calif. area, Leo Carrillo State Beach, caves, Nov 3 S
Maps, U.S. Geological Survey, new releases, Sept 56 all
Marin County, Calif., reservoir-lakes, Mar 48 C
Monterey, Calif., Jack's Peak Regional Park, Apr 41 C
Monterey County, Calif., Toro Regional Park, Mar 16d C
Morgan Hill, Calif., Henry Coe State Park, Dec 24 C
Mount Diablo State Park, No. Calif., summit trail, Feb 8 C
Mount McKinley National Park, Alaska, youth hostel, May 63 all
Mount Rainier National Park, Wash., easy day-hike access, hiking guides, July 58 all
National parks, cross-country, Apr 81 all
Natural Bridges National Monument, Utah, Aug 25 S, D
Netherlands, The, three to six-day hikes, all-inclusive, Apr 78 all
North Bend, Wash., Mount Si, June 30 N
Olympia, Wash. area
McClane Creek nature trail, Nov 88 N
Old Watershed Park, Nov 88 N

Hiking (contd.)
Olympic National Park, Wash., Shi Shi Beach to Hoh River, May 76 all
Oregon coast, new trail, Jan 120 all
Orienteering on your own, clinics, Feb 38 N, 38a C, S, D
Palos Verdes, Calif., beach exploring, Nov 4 S
Phoenix area, trail system, Oct 66 all
Portland, Oaks Bottom Park, bird watching, new trail, Oct 30 N
Prescott National Forest, Ariz., Thumb Butte, June 5 D
Red Rock Canyon State Recreation Area, Nightmare Gulch, May 44 all
Riverwalking, Oct 30a C
San Francisco Bay area
East Bay skyline trail, Feb 38b C
Las Trampas Regional Wilderness, July 8 C
Los Trancos open space preserve, Oct 6 C
Skyline to the sea trail, June 50 C
San Jose, Calif. area, Monte Bello Ridge, guided hike, Mar 52 C
San Juan Island, Wash., Young Mountain, Jan 4 N
Santa Barbara, beach beneath Hope Ranch, Nov 3 S
Santa Catalina Island, Calif., exploring interior, Sept 58 all
Saratoga, Calif., Sanborn-Skyline County Park, walk-in campgrounds, July 57 C
Seattle, Myrtle Edwards Park, Elliott Bay Park, Mar 48 N
Sequoia National Park, Calif., wilderness permits, Apr 4 S
Skagit Valley, Wash., winter exploring, Dec 42 N
Sonoma County, Calif., four Valley of the Moon parks, Nov 42 C
Superior, Ariz. area, Boyce Thompson Southwestern Arboretum, Picket Post trail, Apr 88 all
Swiss mountaintop adventures, riding up, hiking down, June 74 all
Trips and Trails, 2, book review, Nov 4 N

Idaho
Boise
Boise river bike loop, June 72 all
Idaho State Penitentiary State Historic Site, Aug 38d S, D
Boise area, Snake River Birds of Prey Natural Area, May 64 N
Calendar of events, State Travel Office, Apr 6 N
River run update, June 46 all
Sun Valley area, cross-country ski centers, Dec 63 all

Indians
Casa Grande, Ariz., O'Odham Tash All-Indian Powwow, Feb 6 D
Crownpoint, N. Mex., Navajo rug auctions, Oct 3 D; Nov 41 N, 23 S
Española, N. Mex. area, Puye cliff dwelling festival, July 4 D
Idyllwild, Calif., Indian folk-art workshops, Apr 74 S, 71 D
Overton, Nev., Lost City Museum of Archaeology, Nov 64 all
Parker, Ariz., tricultural fest, Sept 6 D
Phoenix, arts and crafts of Northwestern Mexico exhibit, May 68 all
Point Reyes National Seashore, No. Calif., Miwok Indian village replica, Mar 3 C
San Diego County, Calif., Mission San Antonio de Pala, Corpus Christi Fiesta, June 30d S, D
San Diego, Indian pottery, artwork show, July 8 S
Santa Barbara, American Indian arts and crafts show, July 8 S
Vancouver, B.C., Muckamuck restaurant, Indian food, Jan 28b C
Vancouver, B.C., Museum of Man, Northwest Coast Indian art, Feb 5 N
Yakima, Wash., Speelyi-mi Indian arts and crafts fair, Mar 9 N

xico
California
bo San Lucas, Oct 82 all
uana-Mexicali-San Felipe-Ensenada loop
rip, Apr 122 all
pa, new resort, Mar 62 all
ida, home tours, Oct 76 all
ico, Sunset book, June 64 all
ozari de Garcia, annual fiesta, Nov 23 D
ales, Plaza de Toros Guadalupe bullring,
ay 6 D
s in the Wilderness, Father Kino fim, rent-
, Jan 4 D

scellaneous
eology digs, societies, college courses, So.
lif., Oct 36 S, D
istmas celebration takes many forms around
est, Dec 216 all
pass, choosing, Jan 32 all
n produce shopping guides, June 50 N
ealogical branch libraries, Mormon
urch, June 36 C; Sept 35 N, 38 D
d panning, June 52 all
rstate 5, border-to-border side trips,
ne 80 all
s, two-string stunters, Oct 30d S, D
s as gifts, wide choices, Dec 50 all
s, U.S. Geological Survey, new releases,
pt 56 all
eds, pros and cons, Dec 86 all
ries, hot, fit into your pocket for winter
ting, Dec 26 all
ky Mountain states, welcome to *Sunset's*
ritory, Apr 316 all
n trips, one-day, Calif., Jan 26 C, 28b S, D

ntana
ngs, all-college rodeo, Apr 6 N
endar of events, State Travel Office, Apr 4 N
sgow, all-girl rodeo, Aug 40 N, S, D
ky Mountain states, welcome to *Sunset's*
ritory, Apr 316 all
Montana, Feb 42 all
lf Point, wild horse stampede, July 4 N

tional Parks and Monuments
breviations: N.M.: National Monument;
P.: National Park; N.H.P.: National His-
rical Park; N.R.A.: National Recreation
rea; N.H.S.: National Historical Site; N.S.:
ational Seashore)
r-safe park visits, June 38 N, C, 254 S, D
ss-country hiking, Apr 81 all
t Vancouver N.H.S., Wash., May 5 N
n Canyon N.R.A., Lake Powell, feature
ticle, Apr 102 all
den Gate National Recreation Area, Calif.,
alifornia Marine Mammal Center, May 35 C
hua Tree N.M., Calif., Desert Queen Ranch,
ct 24 S, D
gs Canyon N.P., Calif., wilderness permits,
pr 4 S
unt McKinley N.P., Alaska, youth hostel,
lay 63 all
unt Rainier N.P., Wash.
ooks of history, hikes, wildflowers, maps,
July 58 all
eature article, July 60 all
now inner-tubing, Jan 3 N
ips and Trails, 2, book review, Nov 4 N
ural Bridges N.M., Utah, Aug 25 S, D;
ct 56 N, C
mpic N.P., Wash., Shi Shi Beach to Hoh
iver, 50 miles of beach walking, May 76 all
nt Reyes N.S., Calif.
us, boat trips from San Francisco, Aug 3 C
eld seminars, June 8 C
ghthouse, Oct 32 all
iwok Indian village replica, Mar 3 C
organ Horse Farm, June 13 C
uoia N.P., Calif., wilderness permits,
pr 4 S
emite N.P., Calif., snow fun near south
trance, Mar 46 C, 48 S, D

Nevada
Carson City
First international whistle-off, Oct 4 C
Mint-museum, July 33 N, C
Carson City area, Bowers mansion, Sept 52 all
Las Vegas
All-girl rodeo, Aug 40 N, S, D
Arm wrestling contest, skateboard championship, Nevada, Aug 4 D
Las Vegas area, car caravan tour, Oct 42 S, D
Overton, Lost City Museum of Archaeology, Nov 64 all
Reno
Band concerts, free, June 5 C
Nevada opera guild, Aug 4 C
Truckee River bikeway, Sept 8 C
Virginia City, steam train excursion to Gold Hill, July 52 all

New Mexico
Albuquerque
Arabian and half-Arabian U.S. national championship horse show, Aug 36 D
Civic Plaza, sculptures, fountain, events, Sept 5 D
Furniture, door craftsmen, May 72 all
Maxwell Museum of Anthropology, Mimbreño pottery exhibit, May 49 all
New Mexico arts and crafts fair, June 6 D
Sandia Mountain tram/snowshoe adventure, Dec 4 D
Sandia Mountains, La Luz trail run, Aug 4 D
Chimayo, El Santuario Church, native art, architecture, Apr 4 D
Crownpoint, Navajo rug auctions, Oct 3 D; Nov 41 N, 48 C, 23 S
Española area, Puye cliff dwelling festival, July 4 D
Rocky Mountain states, welcome to *Sunset's* territory, Apr 316 all
Ruidoso Downs racetrack, watching morning warmups, Oct 26 all
Santa Fe
Museum of Fine Arts, Messiah sing-along, Dec 4 D
Opera 1977, Feb 60 all
Orchestra of Santa Fe concerts, Nov 4 D
Santa Fe Opera Theatre, backstage tours, July 30 all
Santa Fe area
Folk art show, shopping for Spanish colonial art, May 94 all
Southwest adventure by Amtrak, bus, Dec 42 D
Taos
Furniture, door craftsmen, May 72 all
Taos ski valley, cross-country skiing, Dec 66 all

Oregon
Art prints by mail, Northwest artists, Feb 8 N
Ashland, Oregon Shakespearean Festival, Black Swan Theater, Apr 48 all
Ashland-Medford area, birdwatchers' guide, Feb 48 N
Aurora, Oct 40 N
Beautiful Northwest, The, Sunset book, soft-cover format, Nov 76 N
Bend area, volcanic phenomena, Aug 64 all
Bicycling, wind rose maps, July 54 N
Calendar of events, State Travel Office, Apr 6 N
Coos Bay area, Shore Acres State Park, Simpson estate gardens, June 5 N
Corvallis, Messiah sing-along, Dec 72 N
Eugene
Maude Kerns Art Center, Christmas sale, Dec 3 N
Messiah sing-alongs, Dec 72 N
New mime circus, Feb 6 N
Saturday market, Nov 23 N
Spencer Butte trail, community project, Apr 74 N
Eugene area, Buford Recreation Area, Nov 3 N
Farm produce shopping guides, June 50 N
Grants Pass area, muzzle-loaders rendezvous, Aug 3 N

Oregon (contd.)
Hiker's Guide to the Oregon Coast Trail, A, book review, Nov 4 N
Interstate 5, side trips, June 80 all
Linn County
McDowell Creek Falls Park, Feb 48 N
Waterloo Park, Feb 48 N
Mount Angel, St. Benedict, Ore., Abbey Bach Festival, May 66 N
Mount Hood
Timberline Lodge
Austrian weekend, Apr 3 N
40th anniversary events, Oct 6 N
Oregon City, Barclay, McLoughlin houses, Oct 24 N
Oregon coast, new walking trail, Jan 120 all
Oregon Trail historical displays on Interstate 80N, Mar 54 all
Portland
Balkan spring fest, June 6 N
Blitz-Weinhard brewery tour, Oct 3 N
Curling club, Nov 86 all
Galleria, new-old shopping center, Mar 6 N
Glass craft studio, Mar 21 N
Greek Orthodox community celebration, Oct 6 N
Hoyt Arboretum, new guided tours, Apr 6 N
Messiah sing-along, Dec 72 N
National Button Society convention, Oct 4 N
Oaks Bottom Park, bird watching, new trail, Oct 30 N
Opera 1977, Feb 60 all
Pittock Bird Sanctuary, Collins Sanctuary addition, July 37 N
Portland Epicure, book review, Jan 4 N
Portland International Airport, renovation, Aug 48 all
Portland Meadows racetrack, watching morning warmups, Oct 26 all
Portland Organ Grinder Restaurant, Apr 71 N
Society for Creative Anachronism events, Aug 36 N
Washington Park, energy-efficient demonstration house, July 8 N
Washington Park Zoo, Alaskan musk oxen, Aug 6 N
Portland area, Camassia Natural Area, Mar 16 N
River run update, June 46 all
Sherwood
Robin Hood Festival, July 8 N
Sherwood Oriental Theater, silent movies, organ music, Sept 21 N
Sunriver, snow festival, Dec 4 N
Vernonia, family fossil hunts, Sept 23 N
Winery Trails of the Pacific Northwest, book review, Sept 6 N

Pacific Area
Australia, fish, shellfish specialties, May 60 all
Cook Islands, postage stamps, limited editions, Nov 78 all
Tahiti, Papeete area, Gauguin Museum, botanical garden, Nov 34 all

Skiing
Artificial snow slopes, So. Calif., July 2 S, D
Cross-country ski centers in the West, Dec 63 all
Cross-country skiing, equipment, Nov 90 all
Lake Tahoe Basin, ski lessons, day-care for small fry, Feb 30 C; Mar 16d S, D
Montana ski areas, Feb 42 all
Sunriver, Ore., snow festival, Dec 4 N
Waxing, types, technique, Nov 70 all
Winthrop, Wash., cross-country skiing, Sun Mountain Lodge, Jan 26 N

Sports
Aerobatic school, Sonoma Valley Airport, Calif., Apr 37 C
Andalusian horses, where to see in So. Calif., Aug 36 S
Arm wrestling contest, Las Vegas, Aug 4 D
Baseball, Mexico City Tigres vs. Cleveland Indians, Mar 6 D

Sports (contd.)
Baseball, pregame tours, Anaheim Stadium, Calif., Apr 3 S
Biking: see p. 3
Boating: see p. 3
Bullfights, Plaza de Toros Guadalupe, Nogales, Mexico, May 6 D
Camel races
Indio, Calif., Feb 6 S, 59 D
Sacramento, Oct 7 C
Camping: see p. 6
Creative Anachronism, Society for, participating, watching, Aug 36 N
Curling clubs, Nov 82 all
Dog racing, desert and sled, Ariz., Jan 3 D
Equestrian screening trials, Pebble Beach, Calif., Apr 6 C
Fencing tournevs, Valley College, Los Angeles, Nov 64d S, D
Fishing: see p. 8
Formula Raceways, No. Calif., Sept 24 C
Hiking: see p. 8
Horse racetracks
San Francisco Bay area, guided tours, Apr 4 C
Watching morning warmups, Oct 26 all
Horse trails, Phoenix area, Oct 66 all
Ice skating rinks, Phoenix, Aug 3 D
Kite string reel, Mar 116 all
Kites, two-string stunters, Oct 30d S, D
Lacrosse, major spring tournaments, Mar 60 all
Landsailing, Superior Dry Lakes, near Barstow, Calif., Sept 34a S, D
Marathon, Honolulu, Dec 48 all
New Games Book, The, book review, Jan 4 C
Olympic training center, Squaw Valley, Calif., July 10 C
Orienteering on your own, clinics, Feb 38 N, 38a C, S, D
Parcourses
New, San Francisco Bay area, Jan 6 C
New, So. Calif., Feb 6 S
Polo matches, where to watch, Mar 77 all
Polo, understanding the game, Mar 100 all
Quarter-midget championships, near Puyallup, Wash., Aug 4 N
Rodeo
All-college, Billings, Mont., Apr 6 N
All-girl, Aug 40 N, S, D
Wickenburg, Ariz., Feb 5 D
Wild horse stampede, Wolf Point, Mont., July 4 N
Roller skating
Mission Beach, San Diego, Mar 3 S
No. Calif., six newest, Dec 42 C
Ocean front walk, Venice, Calif., Mar 3 S
Orange County, new rinks, Calif., Nov 42 S, D
Run, Independence Day, Williams, Ariz., July 3 D
Run, La Luz trail, Sandia Mts., Albuquerque, Aug 4 D
Scuba diving, snorkeling, Puget Sound, Apr 37 N
Skateboard championship, Nevada, Las Vegas, Aug 4 D
Skateboard park, Anaheim, Calif., Jan 8 S, D
Skiing: see p. 9
Skydivers, hang gliders, sailplanes, Elsinore, Calif., Oct 40 S, D
Snow festival, Sunriver, Ore., Dec 4 N
Snow fun near south entrance, Yosemite National Park, Calif., Mar 46 C, 48 S, D
Snow inner-tubing, Mount Rainier National Park, Wash., Jan 3 N
Snowshoe treks, Sandia Mt., Albuquerque, Dec 4 D
Soccer, So. Calif. parks, Oct 30a S, D
Surfer-watching, Rincon Point, near Carpinteria, Calif., Aug 44 S, D
Tubing, U.S. Olympic finals, Marina Del Rey, Calif., Oct 3 S

States Other Than Thirteen Western
District of Columbia, Washington D.C., canal boat ride, Aug 26 N, S, D
Louisiana, New Orleans jazz and heritage festival, Apr 98 all

Utah
Cross-country ski centers, Dec 66 all
Glen Canyon National Recreation Area, Lake Powell, feature article, Apr 102 all
Great Salt Lake Park, bird watching, Mar 6 C
Kanab area, Coral Pink Sand Dunes State Reserve, June 42 all
Logan, cultural center from unneeded school building, Aug 62 N
Natural Bridges National Monument, Aug 25 S, D; Oct 56 N, C
Provo, Messiah sing-along, Dec 72 C
River run update, June 46 all
Salt Lake City
All-girl rodeo, Aug 40 N, S, D
Amtrak service to Seattle, June 35 N, C
Arts 'n' Parks, July 4 C
Arts festival, June 6 C
Mormon Church, genealogical department library, June 36 C; Sept 35 N, 38 D
Mormon Tabernacle, organ recitals, choir rehearsals, May 58 all
University of Utah, touring, Sept 49 all
Salt Lake City area, Pioneer Village, Aug 32 all
Utah Birds, book review, Sept 28 all

Washington
Alpine Lakes Wilderness, June 256 all
Art prints by mail, Northwest artists, Feb 8 N
Beautiful Northwest, The, Sunset book, soft-cover format, Nov 76 N
Bellingham, Society for Creative Anachronism event, Aug 36 N
Bicycling, wind rose maps, July 54 N
Calendar of events, State Travel Office, Apr 6 N
Cascade Mountains
Alpine Lakes Wilderness, early spring hike, Apr 42 N
Dickerman Mountain, day hike, June 6 N
Excelsior Mountain hike, July 10 N
Hiking the Gifford Pinchot Back Country, book review, Sept 24 N
Mount Baker, Heliotrope Ridge hike, Apr 40 N
Chiwaukum Mountains, cross-country hiking, Sept 26 N
Columbia Basin, Winchester Wasteway Wildlife Recreation Area, Oct 42 N
Curling clubs, Nov 86 all
Darrington, folk music concerts, Aug 23 N
Eatonville area, Ohop Echo Pioneer Farm, Aug 35 N
Edmonds, Old Milltown, Sept 63 N
Edmonds-Kingston-Point No Point, ferry-bike cruise, Oct 74 N
Ellensburg area, Olmstead Place State Park, farming museum, May 6 N
Everett, Western Newfoundland Club of America water test, Sept 6 N
Farm produce shopping guides, June 50 N
Goldbar, Wallace Falls, improved trail, campsites, July 3 N
Horse racetracks, watching morning warmups, Oct 26 all
Index, Bush House, Aug 56 N
Interstate 5, side trips, June 80 all
King County, U.S. Geological Survey map, Feb 6 N
Kirkland, puppet jam session, May 38 N
Long Beach Peninsula, winter adventure, Feb 40 N
Mount Rainier National Park
Books of history, hikes, wildflowers, maps, July 58 all
Feature article, July 60 all
Snow inner-tubing, Jan 3 N
Trips and Trails, 2, book review, Nov 4 N
North Bend, Mount Si hike, June 30 N
Olympia, brewing company, tour, Oct 3 N
Olympia area
McLane Creek nature trail, Nov 88 N
Old Watershed Park, winter hiking, Nov 88 N
Olympic National Park, Shi Shi Beach to Hoh River, 50 miles of beach walking, May 76 all
Olympic peninsula, Wynoochee Valley, spring drive, Mar 4 N

Washington (contd.)
141 Dives in the Protected Waters of Washington and British Columbia, book review, Apr 38 N
Pasco, National Collection of Fine Arts, touring craft exhibit, Dec 4 N
Port Gamble, museums, Jan 6 N
Poulsbo, June 36 N
Puget Sound
Beneath Puget Sound, book review, Apr 38 N
Salmon fishing, charter boats, Apr 92 all
Scuba diving, snorkeling, Apr 37 N
W. T. Preston, sternwheeler, Nov 24 N
Puyallup area, Quarter-Midget national championships, Aug 4 N
Rockport, Skagit River canoe trips, May 34 N
San Juan Island, Young Mountain, winter walk, Jan 4 N
Seattle
Amtrak service to Salt Lake City, June 35 N, C
Art buses, Dec 46 all
Ballard landmark district, new art gallery, Nov 6 N
Belly dance festival, Sept 8 N
Broadway district, shopping, Apr 72 N
Coast Guard Museum, Mar 36 N
Commodore Park, Dec 6 N
Environmental fair, Jacques Cousteau, Oct 4 N
Gas Works Park, Aug 52 N
International festival of flags, banners, and kites, July 57 N
King Street Station, model railroad system, May 11 N
Lake Union
Discovery by canoe, Mar 46 N
Seaplane scenic flights, Feb 56 all
Lake Washington, Warren G. Magnuson Park, Aug 24 N
Madison Park neighborhood, Sept 38 N
Messiah sing-alongs, Dec 72 N
Myrtle Edwards Park, Elliott Bay Park, Mar 48 N
Opera 1977, Feb 60 all
Queen Anne Hill district tour guide, Feb 30 N
Queen Anne tour of homes, Sept 6 N
Rainier brewery, tour, Oct 3 N
Sailboats, renting, May 52 all
Sea-Tac International Airport, dinner theater, Apr 44 N
Seattle Aquarium, Puget Sound marine life, Sept 36 N
Seattle Center, Center House holiday events, Dec 24 N
Seattle Epicure, book review, Jan 4 N
Seattle Super Shopper, book review, Apr 4 N
Society for Creative Anachronism events, Aug 36 N
Union Pacific depot, antique world, Mar 3 N
Seattle area
Burke-Gilman trail, improved section for cyclists, walkers, May 8 N
Kellogg Island, canoeing, bird watching, picnicking, Oct 46 N
Sequim area, Olympic game farm, movie zoo, Oct 97 N
Skagit River, bald eagle sanctuary float trip, Feb 28 N
Skagit Valley, lower valley, winter exploring, Dec 42 N
Snoqualmie, Christmas village, Dec 4 N
Spokane, Celebration '77, July 4 N
Steelheading, new rules, Nov 74 all
Sumner, wool fair, May 6 N
Tacoma, handbell ringers festival, June 40 N
Vancouver
Fort Vancouver National Historic Site, May 5 N
Vancouver sausage fest, Sept 6 N
Vantage area, Seep Lakes country, fishing, Oct 92 N
Walla Walla, Trails West, outdoor musical theater, July 38 N
Wenatchee National Forest, Tacquala Lake, canoeing, July 28 N
Winery Trails of the Pacific Northwest, book review, Sept 6 N

shington (contd.)
throp, Sun Mountain Lodge, cross-country
ing, Jan 26 N
odinville, Ste. Michelle Winery, tours,
pt 5 N
ima
ristmas festival week, Dec 216 all
eelyi-mi Indian arts and crafts fair,
Mar 9 N
kima Valley Museum, July 27 N

West Indies
Cuba, group tours, Dec 30 all
Haiti, Cap Haitien, Citadelle, Oct 53 all
Jamaica, "Meet the People" program, Jan 16 N, C; Nov 24 S
Martinique, St. Pierre tour, Mar 38 all

Wyoming
Calendar of events, State Travel Office, Apr 4 N

Wyoming (contd.)
Cody, Buffalo Bill Historical Center, Apr 9 N, 74 D; July 28 C
Greybull area, Shell Falls, new overlook, Aug 4 N
Jackson area, cross-country ski centers, Dec 66 all
Laramie, National Collection of Fine Arts, touring craft exhibit, Dec 4 N
Rocky Mountain states, welcome to *Sunset's* territory, Apr 316 all

Environment and Environmental Action

(Also see Solar listings in Building and Remodeling section)

ok Reviews
der's Guide to Southeastern Arizona, A, pt 28 all
ding in the Sacramento Area, Sept 28 all
ds of the South San Francisco Bay Region, ne, Sept 28 all
ds of the West, Sept 28 all
terflies of Southern California, The, ne 205 S
cts of the Los Angeles Basin, The, ne 206 S
cts, Guides for Watchers, May 291 all
nbook, Nov 108 all
h Birds, Sept 28 all
dflowers of Mount Rainier and The Cascades, July 58 all

mmunity Projects
hitecture/environment arts program, ational Endowment of the Arts, July 176 all
na Vista Park, Burbank, Calif., reclaimed od control channel, Nov 76 S, D
ts for Bainbridge Island, Wash., schools, ay 128 all
Library, extensive children's program, arlsbad, Calif., Oct 46 S, D
ic awareness campaign, downtown walks, n Diego, Feb 38b S, D
tural center from unneeded school building, gan, Utah, Aug 62 N
t Bay skyline trail, San Francisco Bay area, eb 38b C
ironmental Learning Center, Clackamas ommunity College, near Oregon City, Ore., pt 170 N
Works Park, Seattle, Aug 52 N
h school campus planted with 2,000 trees, rubs, Davis, Calif., Apr 285 N
estrian flag program, Laguna Beach, Calif., ov 32 all
recrow contest, children's, Chico, Calif., ne 220 N
ncer Butte trail, Eugene, Ore., Apr 74 N
eAlive program, Denver Public Library, ug 58 all
il for bird watchers, Oaks Bottom Park, ortland, Oct 30 N
lden Ponds wildlife habitat, converted mine t, Boulder, Colo., Nov 60 all
dlife study center from little-used playound, Sunnyvale, Calif., Oct 24 C

ture
e also Wildlife in the Garden, p. 31)
oretum, Hoyt, Portland, new guided tours, pr 6 N
haeology digs, societies, college courses, So. alif., Oct 36 S, D
alea State Reserve, near Arcata, Calif., ay 38d C, S, D
r-safe park visits, June 38 N, C, 254 S, D
d life, Santa Cruz, Calif., Sept 63 C

Nature (contd.)
Bird portraits, California Academy of Sciences, San Francisco, June 206 C
Bird sanctuary
Busch, Van Nuys, Calif., Mar 74 all
Pittock addition, Portland, July 37 N
Bird watching
Eagle Lake, near Susanville, Calif., Aug 52 C
George Miller, Jr. Regional Shoreline Park, Richmond, Calif., Aug 6 C
Great Salt Lake Park, Utah, Mar 6 C
Kellogg Island, Seattle area, Oct 46 N
Oaks Bottom Park, Portland, new trail, Oct 30 N
Southeastern Ariz. canyons, June 104 all
Wildlife refuges, Los Banos, Calif. area, Feb 59 N, C; Mar 34 S, D
Birder's Guide to Southeastern Arizona, A, book review, Sept 28 all
Birding in the Sacramento Area, book review, Sept 28 all
Birds of Prey Natural Area, Snake River, Idaho, May 64 N
Birds of the South San Francisco Bay Region, The, book review, Sept 28 all
Birds of the West, book review, Sept 28 all
Birdwatchers' guide, Ashland-Medford, Ore. area, Feb 8 N
Butterflies of Southern California, The, book review, June 205 S
Desert geology, Arizona-Sonora Desert Museum, Tucson area, May 66 S, D
Desert geology caves, Arizona-Sonora Desert Museum, Tucson area, Oct 50 N, C
Desert seminar, Lancaster, Calif., Apr 6 D
Drought severity index, Palmer, Oct 296 all
Eagle, bald, sanctuary float trip, Skagit River, Wash., Feb 28 N
Ecological staircase, Mendocino, Calif. area, July 38 C
Environmental fair, Jacques Cousteau, Seattle, Oct 4 N
Environmental Learning Center, Clackamas Community College, near Oregon City, Ore., Sept 170 N
Fish roundabout, Steinhart Aquarium, San Francisco, May 34 C
Forest, rain, McDowell Creek Falls Park, Ore., Feb 48 N
Fossil hunts, family, Vernonia, Ore., Sept 23 N
Fossil remains, George C. Page Museum, La Brea discoveries, Los Angeles, Apr 64 all
Geologic history, Camassia Natural Area, near Portland, Mar 16 N
Geologic tour, Palos Verdes Peninsula, Calif., Oct 56 S, D
Horses, wild, adopt-a-horse program, May 304 all
Insects of the Los Angeles Basin, The, book review, June 206 S
Insects, Guides for Watchers, May 291 all
Insects, spiders make garden zoo, May 112 all
Insects, spiders, photographing, May 116 all
Mammal Center, California Marine, Golden Gate National Recreation area, May 35 C

Nature (contd.)
Marine life, Puget Sound, Seattle Aquarium, Sept 36 N
Natural history, ecology field seminars, Point Reyes National Seashore, Calif., June 8 C
Nature study weekends, So. Calif., July 4 S
Nature trail, McLane Creek, near Olympia, Wash., Nov 88 N
Oxen, Alaskan musk, Washington Park Zoo, Portland, Aug 6 N
Planetariums, San Francisco Bay area, Feb 5 C
Scientific research facilities, San Francisco Bay area, Oct 50 S, D
Tidepool exploring, Duxbury Reef, Bolinas, Calif. area, Dec 6 C
Tree ring research, Oct 296 all
Trout, Golden, Wilderness study area, near Lone Pine, Calif., Aug 24 C
Utah Birds, book review, Sept 28 all
Volcanic phenomena, Bend, Ore. area, Aug 64 all
Water exhibit, Los Angeles County Fair, Pomona, Sept 6 S
Waterfowl, winter, George C. Reifel Sanctuary, Ladner, B.C. area, Dec 23 N
Weather flags, San Francisco Bay area, Jan 21 C
Wildflowers of Mount Rainier and The Cascades, book review, July 58 all
Wildlife habitat, Walden Ponds, converted mine pit, Boulder, Colo., Nov 60 all
Wildlife study center from little-used playground, Sunnyvale, Calif., Oct 24 C
Wildlife, Sutter Buttes, Calif. Central Valley, guided tours, Sept 34 C
Zoo, movie, near Sequim, Wash., Oct 97 N

Open Space and the Efforts to Preserve It
Angeles National Forest, Calif., Mount Wilson, development input, June 6 S
Bottle legislation, Jan 120 all
Glendale, Calif., Verdugo Mts., Small Wilderness Area Preservation outing, Feb 5 S
Kellogg Island, Seattle area, Oct 46 N
Kern Plateau, Calif., Golden Trout Wilderness, Aug 26 C
Las Vegas Wash, Nev., car caravan tour, Oct 42 S, D
Mendocino, Calif. area, ecological staircase, July 38 C
Portland area, Camassia Natural Area, Mar 16 N
San Francisco Bay area,
Comeback and cleanup, May 120 all
New state park north of Golden Gate, Jan 28 C, D
Los Trancos open space preserve, Oct 6 C
San Jose, Calif. area, Monte Bello Preserve, guided hike, Mar 52 C
Washington's Alpine Lakes Wilderness, June 256 all

Building and Remodeling

Bathrooms
Cabinets, roomy, Oct 182 all
Compartment to drip-dry clothes, Sept 113 all
Hook, towel bar, paper holder, oak, Feb 90 all
Plastic corners keep water in tub, Nov 109 all
Remodel is garden bath, Apr 166 all
Remodeled bath returned to 1910, Jan 67 all
Sauna and bath in small space, Feb 102 all
Shelf-wall with make-up lights, Jan 73 all
Sideboard converted to vanity, Mar 108 all
Tile, handmade, bordered with pine molding, Oct 165 all
Toilet tank, high-pressure, May 101 all
Toilet tissue holder, Mexican chocolate beater, June 146 all
Tub, shower sculptured in tile, May 170 all
Tub, small deep-soaking, Aug 103 all
Vanity niche is just 4 feet wide, Mar 104 all
Water-heating systems, small, May 100 all
Window bay gives bath more light, dog new home, June 148d C, S, D

Bedrooms
Bed frame is practically a room, Oct 186 all
Boy's closet has cubbyholes, June 142 all
8 by 8 bedroom that seems big, Oct 142 all
Garage into bedroom with private patio for $3500, Oct 144 all
Headboard with name, Aug 101 all
Ladder makes railing for sleeping-play loft, Nov 108 all
Loft over first-floor bedroom is twin-bed size, June 154 all
Shelf space by popping out bedroom wall, Jan 56 all
Shelf unit, bolt-together, for child's room, Apr 136 all
Sleeping loft opens up space for desk, toys, play, Aug 102 all

Book Reviews
Furniture Finishing and Refinishing, a *Sunset* book, Oct 140 all
Quick and Easy Furniture, a *Sunset* book, June 122 all
Rainbook, Nov 108 all
Residential Water Conservation, Apr 192 all

Furniture
Bed frame is practically a room, Oct 186 all
Beds from the lumberyard, four ideas, May 176 all
Corner display stand, five-shelf, Oct 146 all
Couch, chair supported with plywood boxes, Oct 158 N
Couch, chair supported with plywood boxes, Nov 156 S, D
Drawing table-desk, easy-to-make, Sept 119 N, S, D
Furniture Finishing and Refinishing, a *Sunset* book, Oct 140 all
Headboard with name, Aug 101 all
Quick and Easy Furniture, a *Sunset* book, June 122 all
Sewing center tables, two ideas, Dec 109 S, D
Table, buffet, plate glass top, Sept 92 all
Table, formal or casual, June 122 all
Tables, sewing-center, two ideas, Nov 141 N
Tabletop, glass, for antique trunk, May 132 all
Unfinished furniture, shopping for quality, Apr 188 N; July 92b S, D
Worktable, instant, uses swing-up hardware, Aug 102 all

Garages, Carports
Carport sometimes is pass-through, Feb 84 all
Carport, staggered, for four cars, May 162 N, C
Garage doors and gate for privacy, Feb 166 S, D

Garages, Carports (contd.)
Garage into bedroom with private patio for $3500, Oct 144 all
Garage now workshop, guest room, Oct 138 N
Garage-workshop has bifolding doors for light, Feb 92 all
Hideaway under garage roof, Sept 98 all
Protecting cars from nicks, scratches, in garage, May 162 S, D; June 126 N, C
Recreational vehicles, garages hide from view, May 126 C
Sewing-utility room, playroom above garage, Nov 140 N; Dec 108 S, D
Trailer storage behind removable fence, Sept 107 all

Home Materials and Equipment
Adhesive filler, Porion, Aug 103 all
Caulk, expanding foam, from can, July 95 all
Concrete pump saves your back, Mar 154 all
Drawer glides, side-mounted, Feb 98 all
Fire pole, brass, from kit, Sept 114 all
Fireplaces, more heat efficient, Jan 70 all
Floor, parquet, from lumber scraps, May 124 all
Glass, commonly used types, Nov 109 all
Hardware shopping in Europe, Mar 155 all
Heat pump, electric, Nov 126 all
Heaters, electric radiant, Nov 108 all
Heaters, wood-burning, Jan 40 N, C
Kitchen work surface, ceramic tile, laying your own, Aug 106 all
Lighting system, miniature track, June 155 all
Miniboards, glue-to-the-wall, Apr 192 all
Rainbook, catalog review, Nov 108 all
Screens, Sun Chek, Sept 115 all
Shutters, rollup, Aug 103 all
Sink, mini, Jan 47 all
Splash Ender kit for bathtub, Nov 109 all
Temperature-setback controls, Jan 46 all
Toilet tank, high-pressure, May 101 all
Tub, small deep-soaking, Aug 103 all
Washing machines, water-saving, Apr 192 all
Water heater insulating parka, Jan 47 all
Water-heating systems, small, May 100 all
Water-saving devices for toilets, showers, faucets, Apr 110 all
Wine cellar cooling kits, July 94 all
Woodworking tools, Cutting Edge, July 95 all

Houses
American Institute of Architects—*Sunset Magazine* Western Home Awards entry information, Feb 112 all
American Institute of Architects—*Sunset Magazine* Western Home Awards, Oct 98 all
Architecture Environment Arts program, National Endowment of the Arts, July 176 all

—Beach
Garden room for beach house, June 125 N, C; July 84d S, D

—Desert
Metal house built for $10+ per square foot, July 74 all

—General
Building codes, guidance, Apr 156 all
Building inspection services, Sept 108 C
Greenhouse collects heat for Santa Fe adobe, May 146 all
House with open space recycles heat, Dec 108 N
Pipes of water heat and cool house, Nov 112 all
Precut houses, May 104 all
Solar-heated house is half underground, Apr 132 all; Nov 115 all
Stairs, spiral, building code change, Sept 114 all
Three-level house is theatrical, Apr 116 N, C, S
Three-part house joined by covered passageways is designed for privacy, Apr 184 all

Houses (contd.)
—Hillside
Semicircle house hangs on central tower, Feb 119 N, C
Small is more in three-level house, Mar 84 all

—Miscellaneous Ideas
Art display using hollow-core doors, Mar 153 all
Atrium from old courtyard, Aug 98 all
Atrium-entrance gets fiberglass roof, Sept 108 N, S, D
Bookshelves on masonry wall, invisible support, Nov 162 all
Cedar sheath camouflages power connections, Oct 150 all
Chandelier, oil-lamp, Apr 193 all
Conservation ideas, Hawaii's Energy House, Apr 142 all
Fire pole, brass, from kit, Sept 114 all
Fireplace, prefabricated metal, disguised, Apr 141 all
Fireplaces have single pueblo-style stack, May 175 N; Nov 166 C, S, D
Floor, parquet, from lumber scraps, May 124 all
Garbage closet, indoor-outdoor, June 126 S, D
Garden room for beach house, June 125 N, C; July 84d S, D
Home designer kit, Mar 155 all
Ladder, railing for sleep-play loft, Nov 108 all
Lighting is all up high, on switch dimmers, Aug 108 all
Living room is wide open to kitchen, Sept 102 C, S, D
Mail chute, roomy, Oct 132 all
Mirror box is also mail pickup, Dec 116 all
Partition wall has storage inside, Apr 186 all
Photo display frame, inexpensive, Oct 175 N, C
Pipes of water heat and cool house, Nov 112 all
Plant conservatory, work center addition, Feb 166 N, C
Plastic dome in plant room wall, Oct 134 all
Play area shelves for toy storage, Nov 144 all
Raised roof section gives extra height, light to rooms, Apr 152 all
Room divider does more than separate spaces, June 140 all
Sewing center built into closet, Oct 162 all
Sewing center tables, two ideas, Nov 141 N; Dec 109 S, D
Sewing-utility room, playroom above garage, Nov 140 N; Dec 108 S, D
Shaft, three-story, balances light, heat between floors, Sept 100 all
Shelf space by popping out wall, Jan 56 all
Shutters, rollup, Aug 103 all
Skylight shades, ideas, Feb 116 all
Sleeping loft opens up space for desk, toys, play, Aug 102 all
Staircase, 2½-story, in small space, Nov 160 N, S, D
Stairway, outdoor circular, serves several functions, Oct 189 N, S, D
Sun control, match-stick blinds, May 100 all
TV sits on lazy susan, Nov 138 all
Water, energy conservation help in past *Sunsets*, Mar 256 all
Window shades roll up from below, May 135 N, C
Wine cellar, built-in cooling, Mar 143 all
Woodshed, indoor-outdoor, Nov 166 N
Workshop and guest room from garage, Oct 138 N
Workshop-garage has bifolding doors for light, Feb 92 all

—Remodeling
Atrium from old courtyard, Aug 98 all
Bathroom returned to 1910, Jan 67 all
Bathroom shelf-wall with make-up lights, Jan 73 all
Bathroom window bay gives more light, dog new home, June 148d C, S, D

ıses (contd.)
modeling (contd.)
ıhouse gets new kitchen, picnic deck, g 104 all
r, hardwood, refinishing, Aug 86 all
ge into bedroom with private patio for 00, Oct 144 all
ge is workshop and guest room, Oct 138 N
len bath is remodel, Apr 166 all
away, indoor-outdoor, under garage roof, ot 98 all
e designer kit, Mar 155 all
hen cupboard in corner space, easy access, e 153 all
hen cuts cook's walking mileage, July 92b C
hen, "country-style", Nov 96 N
hen, dark, outdated, renewed with glass bay dition, July 84 all
hen done over, Apr 146 all
hen has unobstructed view, open shelves, y 160 all
hen, island-idea, Feb 76 all
hen looks larger minus low ceiling and wall, y 154 all
hen, owner-built, uses recycled wood, e 124 S, D; Sept 116 N
hen redone at low cost, Apr 128 N, S, D
hen switched with dining room to open to den, Oct 126 all
hen, three rooms into one, Apr 128 N, S, D
hens feature playroom ideas, Apr 164 all
ng room made larger, lighter, Jan 64 all
added over living room, Feb 82 all
chute, roomy, Oct 132 all
t conservatory, work center, two-story, b 166 N, C
nd floor studio-guest room is tree house, 48 all
ng-utility room, playroom above garage, v 140 N; Dec 108 S, D
board converted to bathroom vanity, ar 108 all
ight turns the corner, Mar 150 all
projector helps visualize design changes, v 236 N, S, D
ll addition creates more openness, ends ffic confusion, June 144 all
oom addition to deck, Feb 174 N; ay 270b C, S, D
nda adds outdoor space at living-room el, Apr 144 all
ndas and turnaround bring new life to ngalow, Apr 168 all
dow wedge makes mini-room, Feb 119 S, D
dows enlarged beside fireplace, Nov 149 all
e cellar, built-in cooling, Mar 143 all
dshed, indoor-outdoor, Nov 166 N

chens
roll-around, holds recyclables, May 144 N; 6 C, S, D
kfast center, two-shelf, Nov 146 all
nets, shelves are particle board in open chen, June 136 all

Kitchens (contd.)
Chopping block fits into countertop recess, Oct 168 all
Cupboard in corner, easy access, June 153 all
Deck, rooftop, reached through kitchen window, Oct 175 S, D
Drawer front, dummy, conceals paper towels, Aug 103 all
Drawers, odd-shaped, for problem areas, Apr 148 all
Farmhouse gets new kitchen, picnic deck, Aug 104 all
Glass bay addition renews dark, outdated kitchen, July 84 all
Island makes kitchen plan work, May 126 N
Island octagon is mini-kitchen, Oct 129 all
Kitchen doubles as work center and dining room, Apr 174 all
Kitchen is open to living room, Sept 102 C, S, D
Kitchen looks larger minus low ceiling and wall, May 154 all
Kitchen switched with dining room to open to garden, Oct 126 all
Refrigerator covered with wood face, Mar 138 N
Remodel, "country-style", Nov 96 N
Remodel cuts down cook's walking, July 92b C
Remodel has unobstructed view, open shelves, May 160 all
Remodel, island-idea kitchen, Feb 76 all
Remodel, owner-built, uses recycled wood, June 124 S, D; Sept 116 N
Remodeled kitchen made three rooms into one, Apr 128 N, S, D
Remodeled 1900 kitchen redone at low cost, Apr 128 N, S, D
Remodels feature playroom ideas for small fry, Apr 164 all
Rustic kitchen inspired by English country stable, Apr 182 all
Shelf has storage above and below, May 156 all
Shelves, high-low, accessibility, Feb 114 all
Shelves, open, are useful, decorative, Oct 157 C, S, D; Nov 155 N
Sink, mini, Jan 47 all
Spice rack for large collection, Sept 88 all
Tile, handmade, bordered with pine molding, Oct 165 all
Victorian kitchen done over, Apr 146 all
Wall desk by the phone, Nov 156 N
Work surface, ceramic tile, laying your own, Aug 106 all

Laundries
Drip-dry rod, drip pan, Feb 107 all
Laundry sorting center, Feb 107 all
Sewing-utility room, playroom above garage, Nov 140 N; Dec 108 S, D

Lighting
Chandelier, oil-lamp, Apr 193 all
House has all lighting up high, on switch dimmers, Aug 108 all
Insulating shutters let light in, shut to trap heat indoors, Dec 98 all

Lighting (contd.)
Miniature track lighting system, June 155 all
Plastic dome in plant room wall, Oct 134 all
Raised roof section gives extra height, light to rooms, Apr 152 all
Shaft, three-story, balances light, heat between floors, Sept 100 all
Skylight shades, ideas, Feb 116 all
Skylight turns the corner, Mar 150 all
Window wedge makes mini-room, Feb 119 S, D

Solar
Black pebbles help heat pool, May 101 all
Greenhouse collects heat for Santa Fe adobe, May 146 all
Hawaii's Energy House, Apr 142 all; Nov 115 all
House with open space recycles heat, Dec 108 N
Insulating shutters let light in, shut to trap heat indoors, Dec 98 all
Pipes of water heat, cool houses, Nov 112 all
Rainbook, Nov 108 all
Solar-heated house is half underground, Apr 132 all; Nov 115 all
Solar heating in northwest, sources for help, July 96 N

Storage
Bathroom cabinets, roomy, Oct 182 all
Bin, roll-around, holds recyclables, May 144 N, 126 C, S, D
Bookshelves on masonry wall, invisible support, Nov 162 all
Breakfast center, two-shelf, Nov 146 all
Closet in boy's room has cubbyholes, June 142 all
Drawer front, dummy, conceals paper towels, Aug 103 all
Drawer glides, side-mounted, Feb 98 all
Drawers, little, between studs, Sept 115 all
Drawers, odd-shaped, Apr 148 all
Kitchen cupboard in corner space, easy access, June 153 all
Kitchen shelf storage above, below, May 156 all
Kitchen shelves, open, are useful, decorative, Oct 157 C, S, D; Nov 155 N
Library-storage-work alcove, Mar 113 all
Partition wall has storage inside, Apr 186 all
Room divider does more than separate spaces, June 140 all
Sewing cabinet, luxury-sized, May 150 all
Sewing center built into closet, Oct 162 all
Shelf space by popping out wall, Jan 56 all
Shelf unit, bolt-together, for child's room, Apr 136 all
Spice rack for large collection, Sept 88 all
Stairs, interior, making use of space under, Mar 137 all
Storage wall under stair, Apr 151 all
Toy storage shelves for play area, Nov 144 all
TV sits on lazy susan, Nov 138 all
Wine cellar, built-in cooling, Mar 143 all
Wine rack holds 12 cases, Sept 104 all

Workshop and Craft Projects

ok Reviews
stmas Ideas and Answers, a *Sunset* annual, ov 158 all
niture Finishing and Refinishing, a *Sunset* ok, Oct 140 all
s for Clothing Decoration, a *Sunset* book, t 136 all
k and Easy Furniture, a *Sunset* book, ne 122 all
Toys and Dolls, a *Sunset* book, ay 136 all

Crafts, Misc.
Angels, doves, geese from paper plates, Dec 92 all
Animal toys from scrub brushes, Nov 158 all
Aprons, work, "personalized", Jan 74 all
Bath bags of herbs, flowers, May 138 all
Beads, paper, Mar 158 all
Bird feeder, pine cone, Dec 90 all
Bottle houses for tiny dolls, Dec 107 all
Building blocks from milk cartons, Dec 100 all

Crafts, Misc. (contd.)
Christmas cards, thumbprint, Nov 130 all
Christmas fruit trees you make yourself, Dec 74 all
Christmas Ideas and Answers, a *Sunset* annual, Nov 158 all
Doll house parts, prefabricated, Dec 126 all
Gift jars, sculpture lids, Dec 80 all
Gift wrap from old calendars, Jan 58 all
Gift wraps, Japanese, Aug 84 all
Greeting cards, silk-screened, Nov 116 all

Crafts, Misc. (contd.)
Hair combs, decorated, Dec 90 all
Hats, Halloween animal, Oct 118 all
Ideas for Clothing Decoration, a *Sunset* book, Oct 136 all
Mirror tile, decorated, Dec 90 all
Mobile, ceramic, May 164 all
Monogram, printing with vegetable, Nov 160 C
Necklace, seed, Nov 132 all
Ornament, yarn, Santa, Dec 118 C, S, D
Ornaments, fabric, decorated with children's art, Dec 110 all
Party, gift-making, for kids, Dec 88 all
Play blocks, foam, Jan 46 all
Portraits, paper dolls from slides, Jan 54 all
Postcards for art displays, Nov 142 all
Postcards from old calendars, Jan 58 all
Potpourri, floral-spice, Sept 162 N, C; 158 S
Pouch, leather, Dec 91 all
Pumpkins, Halloween, painted, Oct 181 C, S, D
Pumpkins, Halloween, greet visitors, Oct 160 all
Puppet theater in window shade, Sept 90 all
Sandcastling, July 70 all
Sandpaper art, June 112 all
Soap dish, ceramic hand, Oct 157 N; Nov 155 C, S, D
Soap, homemade, Nov 150 all
Wrapping paper stamped with fruits, vegetables, Dec 104 all
Yule log, Dec 91 all

Sewing
Aprons, work, "personalized", Jan 74 all
Bath bags of herbs, flowers, May 138 all
Doll, papoose, with sleeping bag, May 136 all
Dress is towel, changing cabana, July 78 all
Exercise pad, removable towel case, July 98 S, D; Nov 156 C
Ideas for Clothing Decoration, a *Sunset* book, Oct 136 all
Photo-gifts from photographs, Dec 124 all
Pillow with doll on string, Feb 108 all
Pillow with child's art stitchery, Dec 120 all
Pouch for bedtime reader, Oct 166 all

Sewing (contd.)
Quilt, sunshine, for baby, Oct 170 all
Sewing aid stocking stuffers, Dec 112 all
Shirts, work, personalized, Aug 74 all
Skateboard tote bag, May 175 S, D
Soft Toys and Dolls, a *Sunset* book, May 136 all
Sweater with embroidered drawing, Oct 136 all
Swim shift from towels, July 93 N, 92a C, S, D
Tennis racket cover, Sept 110 N, S, D
Tote bag opens out for picnic, June 109 all
Weather-strip fabric tube, Mar 154 all

Woodworking
Address board, Dec 91 all
Basketball backboard grid, Apr 160 all
Bathroom, towel bar, paper holder, Feb 90 all
Bed frame is practically a room, Oct 186 all
Beds from the lumberyard, May 176 all
Birdhouses, ghost-town, Mar 138 C
Candle holder, Dec 90 all
Canoe caddy, Mar 145 all
Carryalls, household, easy-to-make, Mar 148 all
Carts for Bainbridge Island, Wash., schools, May 128 all
Chandelier, oil-lamp, Apr 193 all
Coat rack for $15, Oct 138 C, S, D
Coat rack, wall-hung, Dec 90 all
Cooling rack for cakes, Feb 86 all
Corner display stand, five shelf, Oct 146 all
Couch, chair supported with plywood boxes, Oct 158 N; Nov 156 S, D
Desk on wall, May 144 S, D; June 120 C; Nov 156 N
Desk top file or book rack, Mar 106 all
Doll house parts, prefabricated, Dec 126 all
Drawing table-desk, Sept 119 N, S, D
Floor, hardwood, refinishing, Aug 86 all
Floor, parquet, from lumber scraps, May 124 all
Furniture Finishing and Refinishing, a *Sunset* book, Oct 140 all
Garden lights are sculpture, May 270d C, S, D
Gymnastic equipment for backyard, May 110 all

Woodworking (contd.)
Headboard with name, Aug 101 all
Kickwheel, potter's, Sept 102 N
Kitchen shelf has storage above and below May 156 all
Kite string reel, Mar 116 all
Knife racks, three you can make, Dec 128 all
Landing net, hardwood, Oct 180 N
Mailbox post is flower box, garden light, June 138 all
Mirror box is also mail pickup, Dec 116 all
Party, gift-making for kids, Dec 88 all
Photo display frame, inexpensive, Oct 175 N, C
Plant stand, grapestake, Apr 188 C, S, D
Play structures, plywood, built without power tools, July 98 N, C
Play tower, easy-to-build, inexpensive, Sept 116 C, S, D
Playhouse is old cable spool, Mar 156 all
Quick and Easy Furniture, a *Sunset* book, June 122 all
Refrigerator covered with wood face, Mar 138 N
Sanding block, flexible, June 155 all
Sewing center tables, two ideas, Dec 109 S, D
Shelf unit, bolt-together, Apr 136 all
Shelves for toy storage, Nov 144 all
Spice rack for large collection, Sept 88 all
Table, buffet, plate glass top, Sept 92 all
Table, formal or casual, June 122 all
Table, picnic, two designs, June 94 all
Tables, sewing-center, two ideas, Nov 141 N
The Cutting Edge, tools, July 95 all
Toilet tissue holder, Mexican chocolate beater, June 146 all
Train, toy, Dec 90 all
Tree stand is tree stump, Dec 102 N, C
Wall desk, June 120 C
Wine rack holds 12 cases, Sept 104 all
Workbench tools, keeping track of, Jan 62 all
Workbench, easy-to-make, Dec 102 S, D
Worktable, uses swing-up hardware, Aug 102 all

Outdoor Building

Benches
Fence is friendly bench, Apr 273 all

Children's Play Areas
Barbell rack, July 93 C
Basketball backboard as art, Apr 193 all
Basketball backboard grid, Apr 160 all
Gymnastic equipment for backyard, May 110 all
Play structure in garden remodel, Apr 181 N
Play structures, plywood, built without power tools, July 98 N, C
Play tower, easy-to-build, inexpensive, Sept 116 C, S, D
Playhouse is old cable spool, Mar 156 all
Playhouse, split-level, Apr 154 all

Fences, Gates, Screens
Deck, streetside, behind wall, Feb 97 all
Driveway gate has automatic garage-door, opener, July 94 all
Fence is friendly bench, Apr 273 all
Fence ordinance, Eugene, Ore., Feb 151 N
Fence, removable, for storing trailer, Sept 107 all
Heat screens roll over interior courtyard, May 175 C

Fences, Gates, Screens (contd.)
Open fence creates streetside garden from wasted space, Apr 296 N
Railroad ties, landscaping with, Feb 66 all
Screen-wall for streetside privacy, Feb 166 S, D
Screen, glass, gives terrace view without wind, Oct 158 C, S, D
Shelf-screen makes work center, Mar 249 N, C; May 272 S, D
Structure controls shade, wind for deck activities, Nov 246 all
View holes for dogs, two ideas, Oct 154 all
Wind screen, pivoting glass, patio, Feb 104 S, D

Garden Structures, Greenhouses, Plant Shelters
(See Gardening and Landscaping section)

Miscellaneous
Atrium-entrance gets roof, Sept 108 N, S, D
Barbecue pit is brick stack, June 110 all
Barbell rack, July 93 C
Barn raising, June 148 C, S, D; Sept 76 N
Bird feeder, squirrel-proof, Feb 153 N
Birdhouses, ghost-town, Mar 138 C
Brick carrier, Oct 264 all

Miscellaneous (contd.)
Building codes, guidance, Apr 156 all
Canoe caddy, Mar 145 all
Cedar sheath camouflages power connections, Oct 150 all
Circuit box cover-up is backdrop for house numbers, Sept 114 all
Concrete pump saves your back, Mar 154 all
Dog gains new home with window bay addition to bath, June 148d C, S, D
Entry garden, downhill, uses steps, landings, Dec 201 S, D
Game court, Sport Court, Sept 115 all
Garbage closet, indoor-outdoor, June 126 S, D
Garden lights are sculpture, May 270d C, S, D
Garden remodel for cash cost of $613, Apr 181 N; July 84d C
Garden walk is wood blocks, June 120 S, D
Gymnastic equipment for backyard, May 110 all
Heat screens roll out over interior courtyard, May 175 C
Hose hanger from scrap wood (GG), Nov 222 S
Joints, plastic, for lightweight construction, May 101 all
Lawn edging, concrete, fits into retaining wall o utility pole rounds (GG), Nov 222 N
Mailbox post is flower box, garden light, June 138 all
Pet scratch pad for door, June 148 all

scellaneous (contd.)
tic panels prevent birds from crashing windows, Dec 201 N, 193 S, D
lroad ties, landscaping with, Feb 66 all
k ground cover as cover-up, Aug 156 all
de screen helps keep house cool, July 94 all
de structures conserve energy, water, ne 208 all
lf, folding, for plant display, buffet serving, ay 172 all
all lot garden landscaped on budget, ug 158 N
rway pots hang on bent rods, ly 152 N, S, D
rway, outdoor circular, serves several functns, Oct 189 N, S, D
s, railroad-tie-and-brick, team up with stuced retaining walls, Apr 181 C, S, D
control, match-stick blinds, May 100 all
le, picnic, two designs, June 94 all
ephone booth, outdoor, June 154 all
ll desk, May 144 S, D; June 120 C
lls, step-up, for slope, Mar 120 all
odshed, indoor-outdoor, Nov 166 N

tios and Decks
ium-entrance fiberglass roof, ept 108 N, S, D

Patios and Decks (contd.)
Deck area, lounge and entertain, Apr 126 N, S, D
Deck and trellis goes back to craftsman-era, May 158 all
Deck becomes outdoor living room with festive canopy, Apr 171 all
Deck, narrow side-yard, Mar 146 all
Deck planter-rail, July 86 all
Deck railing uses threaded wire, July 96 C, S, D
Deck sunroom addition, Feb 174 N; May 270b C, S, D
Deck, rooftop, entertaining, privacy, May 268 N
Deck, rooftop, reached through kitchen window, Oct 175 S, D
Deck, streetside, behind wall, Feb 97 all
Decks added over changing levels to enlarge garden, Nov 234 all
Decks, high, in hillside garden remodel, May 302 all
Decks, steps, walks, plants transform blocky house, June 100 all
Decks, walkway, greenhouse in old bare backyard, Oct 176 all
Farmhouse, new kitchen, picnic deck, Aug 104 all
Gazebo, deck, trellis, staggered carport for back garden remodel, May 162 N, C
Patio, subtropical, hides bedroom from street, Feb 70 all

Patios and Decks (contd.)
Patio, wood-floored, has removable boards to plant around tree, Mar 211 C
Shade structures conserve energy, water, June 208 all
Structure controls shade, wind for deck activities, Nov 246 all
Terrace has glass screen for view without wind, Oct 158 C, S, D
Terrace has tree-to-tree canal watering system, Mar 110 all
Townhouse garden deck, outdoor living area, Apr 191 all
Veranda adds outdoor space at living-room level, Apr 144 all
Verandas and turnaround bring new life to bungalow, Apr 168 all
Wind screen, pivoting glass, Feb 104 S, D

Paving
(See Gardening and Landscaping section)

Swimming Pools
Black pebbles help heat pool, May 101 all
Cabañas, portable, at poolside, May 168 all
Pool cover panels, homemade, inexpensive, Aug 102 all

Christmas Ideas

ristmas Events
ristmas celebration takes many forms around est, Dec 216 all
ristmas in Seattle Center, Dec 24 N
ristmas in Snoqualmie Valley, Dec 3 N
kens' *Christmas Carol,* Dec 3 C
ssiah sing-alongs, Dec 72 N, C
ta Claus exhibit in Sacramento, Dec 3 C

ristmas Trees
re for fresher tree (GG), Dec 173 S
ntury plant *(agave species)* flower stalk makes nusual Christmas tree (GG), Dec 173 S
oose and cut guide, Calif. tree farms (GG), ec 173 C
ristmas tree festival, Colorado Springs, olo., Dec 4 C
t-your-own, checking for spider mites (GG), ec 173 C, S
ing, care after purchasing (GG), Nov 222 N
ing, care and selection (GG), Nov 223 C
ing Christmas tree display, Hansen Baking ompany, Seattle (GG), Dec 173 N
ing, other varieties worth considering (GG), ec 173 N
e farms, Sonoma County, Calif., Dec 44 C
e stand is tree stump, Dec 102 N, C

afts
gels, doves, from paper plates, Dec 92 all
ristmas cards, thumbprint, Nov 130 all
ristmas fruit trees you make, Dec 74 all
ristmas Ideas and Answers, a *Sunset* annual, ov 158 all
nes, pine, spruce, collecting, Dec 192 N
oky ornaments, candy-filled, Dec 168 C, 60 S, D
ugh sculpture jar lids, Dec 80 all
eeting cards, silk-screened, Nov 116 all

Crafts (contd.)
Holiday swag uses prunings, simple frame, Dec 198 N, 202 S, D
Lights, decorative electric, using sparingly, Dec 114 all
Ornament, yarn, Santa, Dec 118 C, S, D
Ornaments, fabric, decorated with children's art, Dec 110 all
Poinsettia flowers, harvesting (GG), Dec 173 N
Tree charms, Korean, Dec 23 S, D
Wrapping paper stamped with fruits, vegetables, Dec 104 all
Wreaths, herbs and peppers, Dec 194 C

Gift Ideas
Address board, Dec 91 all
Animal toys from scrub brushes, Nov 158 all
Attracting Birds to Your Garden, a *Sunset* book, Dec 195 N, S, D, 193 C
Bird feeder, pine cone, Dec 90 all
Bird watchers' gardens, gifts for, Dec 194 N, S, D, 192 C
Candle holder, Dec 90 all
Coat rack, wall-hung, Dec 90 all
Cook Book of Breads, a *Sunset* book, Dec 94 all
Crafts, imports, KPFK International Merrie Christmas Fair, Santa Monica, Calif., Dec 4 S
Ferns, maidenhair, Dec 178 C, S, D
Food gifts by mail, catalogs, Nov 120 all
Food gifts by mail, Dec 130 all
Gift booths, Holiday Street Festival, Ventura, Calif., Dec 41 S
Gift jars, sculpture lids, Dec 80 all
Gift-making party for kids, Dec 88 all
Gift shopping, Maude Kerns Art Center, Eugene, Ore., Dec 3 N
Hair combs, decorated, Dec 90 all
Knife racks, three you can make, Dec 128 all
Leather pouch, Dec 91 all
Maple, Japanese *(acer palmatum* 'sangokaku', *A.P.* 'aoyagi') (GG), Dec 173 N

Gift Ideas (contd.)
Maps as gifts, wide choices, Dec 50 all
Mirror tile, decorated, Dec 90 all
Mopeds, pros and cons, Dec 86 all
Photo-gifts from photographs, Dec 124 all
Plant gifts, instant, Dec 176 all
Potpourri, floral-spice, Sept 162 N, C, 158 S
Rhododendrons, making cuttings for Christmas gifts, Aug 160 N
Sewing aid stocking stuffers, Dec 112 all
Soap, homemade, Nov 150 all
Stocking stuffers from Mexico, Japan, China, Dec 44 S, D
Teas, unusual, packaging yourself, Dec 123 all
Tools for the baker, Dec 137 all
Tools, devices for the water miser, Dec 78 all
Train, toy, Dec 90 all
Tropical Exotics, Tropical Shrubs, book reviews (GG), Dec 174 S
Wreaths, herbs and peppers Dec 194 C
Yule log, Dec 91 all

Seasonal Food and Entertaining
Brunch, Mexican casserole, Dec 134 all
Buffet, tree trimming, Dec 152 all
Buffet, walnut bread, Dec 134 all
Candy cane crisps, Dec 154 all
Cardamom wreath, Swedish, Dec 94 all
Cheese spread, ongoing, Dec 132 all
Cook Book of Breads, a *Sunset* book, Dec 94 all
Cooky ornaments, candy-filled, Dec 168 C, 160 S, D
Cramique, Belgian, Dec 94 all
Dried fruit and nut sticks, glacéed, Dec 166 all
Hanukkah feast, Dec 138 all
Krendl, Russian, Dec 94 all
Pudding, steamed, spicy dark, Dec 170 all
Soup, onion, party, Dec 77 all
Soup, split pea, hearty, Dec 77 all
Sundae, hot cherry, Dec 164 all
Sundae, red raspberry, Dec 164 all
Sundae, spiced cranberry, Dec 164 all

Home Management

Book Reviews
Chickens in Your Backyard, Jan 93 S
Compleat California Consumer Catalogue, The, Mar 154 all; address, Apr 192 all
Rainbook, Nov 108 all
Residential Water Conservation, Apr 192 all

Country Living
Barn raising, June 148b C, S, D; Sept 76 N
Chickens in Your Backyard, book review, Jan 93 S
Poultry shows, Jan 98 all

Maintenance
Adhesive filler, Porion, Aug 103 all
Caulk, expanding foam, from can, July 95 all
Floor, hardwood, refinishing, Aug 86 all
Furniture, wicker, repairing, Apr 192 all
House settling, drought-caused, Oct 189 C
Moss, removing from roof, Jan 47 all
Sanding block, flexible, June 155 all
Wallpaper, chemical for removing, June 155 all
Woodworking tools, Cutting Edge, July 95 all

Miscellaneous
Bottle legislation, Jan 120 all
Building codes, guidance, Apr 156 all

Miscellaneous (contd.)
Building inspection services, Sept 108 C
Carryalls, household, easy-to-make, Mar 148 all
Cars, protecting from nicks, May 162 S, D; June 126 N, C
Christmas lights, using sparingly, Dec 114 all
Compleat California Consumer Catalogue, The, book review, Mar 154 all; address, Apr 192 all
Conservation ideas, Hawaii's Energy House, Apr 142 all
Drawer glides, side-mounted, Feb 98 all
Fireplaces, making more heat efficient, Jan 70 all
Food dryers, home-built, ideas for uses from gardener-cooks, Aug 142d S, D
Food processor machines, labor-saving, Mar 140 all
Frugality with garden water, ideas from Marin County, Calif., Mar 240b C, S, D
Furniture, unfinished, shopping for quality, Apr 188 N; July 92b S, D
Gray water put to work in garden, May 268 C
Gray water, how five home owners keep gardens going, Sept 168 C, 170 S, D
Heaters, wood-burning, Jan 40 N, C
Insulation needs shown by infrared photographs, Nov 109 all
Laundry drip-dry rod, drip pan, Feb 107 all
Laundry sorting center, Feb 107 all

Miscellaneous (contd.)
Loans, variable interest rate, July 90 all
Moving yourself, pros and cons, June 114 al
Pet scratch pad for door, June 148 all
Picture grouping, spacing solution, Nov 165 a
Postal rates for books, June 118 all
Pumps for moving gray water, May 287 C
Rainbook, catalog review, Nov 108 all
Residential Water Conservation, book-review Apr 192 all
Selling your house yourself, June 130 all
Shade screen helps keep house cool, July 94 a
Stairs, spiral, building code change, Sept 114 a
Swimming pool cover panels, homemade, inexpensive, Aug 102 all
Tile, ceramic, kitchen counter, laying your ow Aug 106 all
Toilets, portable, water-saving, July 95 all
Utilities, knowing how to shut off, Mar 155 a
Water, energy conservation help in past *Sunsets*, Mar 256 all
Water heater insulating parka, Jan 47 all
Water meter, portable, June 207 C
Water meters, how to read, June 154 all
Water-saving devices for toilets, showers, faucets, Apr 110 all
Water-saving washing machines, Apr 192 all
Water shortage, coping with, Feb 188 all
Weather-strip fabric tube, Mar 154 all
Workbench tools, keeping track of, Jan 62 a

Food and Entertaining

Appetizers
Antipasto salad, May 222 all
Appetizer bits, crunchy, Nov 208d all
Appetizer tortillas, Guatemalan, Nov 170 all
Appetizer trays, buffet for 24, Apr 120 all
Bean, white, dip, June 93 all
Beef in grape leaves, Vietnamese, Nov 218 all
Bitterballen, May 231 all
Braunschweiger, Brie canapés, Oct 192 all
Canapés Phynorque, Mar 190 all
Caponata alla Allardicci, May 215 all
Cheese spread, ongoing, Dec 132 all
Cheese spread, spiced, with condiments, Apr 244 all
Citrus consommé, Oct 246 C, S, D
Clam tofu dip, Dec 146 all
Egg dip, crunchy, Mar 198 all
Fish terrine, baked, June 178 S, D
Head cheese in vinaigrette sauce, Oct 192 all
Jerky, Hawaiian, Oct 210 all
Meat pies, Quebec, Dec 158 all
Panuchos, Oct 204 N, S, D
Pork, potted, Mar 89 all
Potato, new, nibbles, June 160 C, S, D; July 113 N
Salmon, pickled, July 134 all
Shrimp and onion appetizer, Sept 140 all
Shrimp pâté, dilled, June 178 S, D
Shrimp, potted, Mar 89 all
Tofu dip, herbed, Dec 146 all
Tofu onion dip, Dec 146 all
Tortilla egg snacks, Aug 122 all
Tuna tofu dip, curried, Dec 146 all
Turkey and green chile tumble, Dec 151 C
Turkey and vegetable tumble, Dec 150 C

Baking
—Breads
Quick Breads
biscuits, caraway, Mar 178 N, C
bran, adding to baked goods, Mar 204 C, S, D
corn bread pizza, Sept 121 all
muffins, rhubarb, June 174 all
orange graham, Apr 197 all

Baking (contd.)
—Breads (contd.)
popovers, Cheddar cheese, Oct 190 all
rhubarb tea, June 174 all
scone hearts, buttermilk, Feb 136 all
spoonbread, jalapeño, Oct 220 all
Swiss egg puffs, May 218 all
Yeast Breads
anise (pan de anis), Feb 132 all
apple rye, Dec 142 all
apple-and-prune swirls, Apr 211 N
biscuit-buns, whole wheat, raised, Jan 76 all
biscuits, buttermilk, oversized, Oct 226 all
bran, adding to baked goods, Mar 204 C, S, D
bran, Colombian, May 196 all
buns, Bath, Apr 115 C, S, 241 N
buns, nut, upside-down, Apr 211 N
buns, pineapple, upside-down, Apr 211 N
cardamom wreath, Swedish, Dec 94 all
Cook Book of Breads, a *Sunset* book, Dec 94 all
cramique, Belgian, Dec 94 all
crescents, date-filled, Apr 211 N
doughnut twists, cinnamon, Oct 196 all
guava-filled, Colombian, May 195 all
krendl, Russian, Dec 94 all
kulcha, onion, Sept 123 all
orange swirls, Apr 211 N
pretzels, German soft, Oct 230 all
roll menagerie, whole wheat, Mar 94 all
rolls, buttermilk-wheat, Apr 210 N
rolls, garlicky dinner, Nov 182 all
rolls, sweet, wheat-and-oats, Apr 210 N
Sally Lunn, Old English, Apr 115 C, S, 241 N
taco twisties, spicy, Dec 133 all
triticale berry, Apr 226 all
triticale honey, Nov 210 all
triticale pumpernickel, Nov 210 all
walnut loaf, Alsatian, Dec 134 all

—Cakes
Blueberry, spicy, July 101 all
Carob-orange, Oct 234 all
Carrot, Easter, Apr 206 all

Baking (contd.)
—Cakes (contd.)
Cherry Gateau St. Honore, June 160 N, 178 C
Cherry squares, spicy, Feb 121 all
Chocolate tweed, Feb 129 C
Cobbler, purple plum, nut-topped, Sept 128 N
Cupcakes, angel, Apr 197 all
Filbert and date, Mar 182 all
Fruitcake, zucchini, Sept 146 all
Gingerbread squares, Oct 192 all
Nut roll with peaches, Aug 127 C
Oatcake, fine and vital, Oct 210 all
Poundcake, coffee-butterscotch, Mar 163 all
Poundcake, whole wheat yogurt, Oct 203 N, 194 C, S, D
Tart, strawberry crown, Mar 174 S, D
Torte, cardamom, strawberry-topped, Apr 198 all
Upside-down, apricot-prune, Oct 228 all
Upside-down, Swedish, Dec 160 N, C
Walnut, Mar 182 all

—Coffee Cakes
Banana coffee ring, May 224 all
Bran, adding to baked goods, Mar 204 C, S, D
Peach, Sept 144 all
Pear, Sept 144 all
Plum, fresh, Sept 144 all

—Cookies
Candy cane crisps, Dec 154 all
Carob chip, Oct 134 all
Chocolate cream cushions, Mar 166 all
Coconut cooky sandwiches, Nov 212 all
Cooky ornaments, candy-filled, Dec 168 C, 160 S, D
Date and oat bars, sugarless, Oct 242 all
Freezer date, sugarless, Oct 242 all
Graham crisps, giant, Mar 176 all
Ice cream sandwiches, irresistible, Oct 194 N
Lunch-basket squares, Sept 121 all
Mardi Gras squares, Aug 136 all
Oatmeal chocolate-chip, big, Mar 176 all
Oatmeal drops, spiced, Apr 210 S, D; May 206 C
Oatmeal raisin, big, Mar 176 all
Orange coconut crisps, Nov 212 all

ıking (contd.)
Cookies (contd.)
›range granola bars, Jan 88 all
eanut butter platters, Mar 176 all
pice, New Mexico Bizcochitos, Apr 220 all
/hole wheat-nutmeg drops, Apr 210 S, D; May 206 C
/hole wheat-oatmeal crisps, Apr 210 S, D; May 206 C

Pancakes and Waffles
ncakes
ran, adding to baked goods, Mar 204 C, S, D
uttermilk and bourbon hotcakes, Brown's Bainbridge, Aug 136 all
arrot-potato, Feb 121 all
orn fritters, jumbo, Dec 142 all
rêpe, Polish, Oct 222 all
rêpe quesadillas, Oct 222 all
rêpe stack, chilled, Dec 162 all
rêpes, basic, for a crowd, May 201 N, 189 C
rêpes, chicken, Mexican, Dec 154 all
rêpes, cranberry, orange sauce, Nov 188 all
rêpes, dessert, May 201 N, 189 C
rêpes, main-dish, May 201 N, 189 C
rêpewich, BLT, Oct 222 all
inner, Nov 208d all
›utch babies, super-sized, Jan 44 all
ingerbread, Nov 188 all
ven, with chile beef, Italian sausage, and mushroom fillings, June 178 N; Oct 203 C, S, D
otato, crispy, Apr 236 all
otato, Dec 139 all
otato, oven-baked, Apr 236 all
ıffles
elgian, crisp, May 200 C
ran wheat, Sept 136 all
ran, adding to baked goods, Mar 204 C, S, D
›rnmeal, honey-topped, May 182 all
›rnmeal, hot, Apr 206 all
raham, crisp, Mar 202 all
hole wheat, Mar 202 all

Pies and Pastries
sserts
mond pastry snacks, Dutch, Mar 180 all
loha pie, Mar 198 all
›ple nut pie, upside-down, Mar 186 all
ıerry Gateau St. Honore, June 160 N, 178 C
ıiffon pies, tortes, low-calorie, Oct 240 all
ıocolate peanut pie, Oct 191 all
anberry persimmon pie, Nov 169 all
la pastry, apple-filled, May 208 all
uit, fresh, pastry, June 164 all
nishes, cheese, Jan 76 all
mon chiffon pie, light, May 234 all
mon pie, double-crust, May 234 all
eanut banana pie, Jan 80 all
ızza, apple, Apr 232 all
ıubarb apple berry pie, May 183 all
cotta berry pie, June 157 all
rawberry meringue cornucopias, Apr 198 all
ırt, cherry plum, July 124 all
rt, coconut, June 192 all
rt, French apple, Nov 214 all
ırt, purple plum streusel, Sept 128 C, 129 S, D
›rte, strawberry cream, frozen, Mar 174 S, D
›gurt cheese pie, Aug 111 all
rées
efsteak, kidney, and oyster pie, Mar 182 all
ıns, chicken and egg, Chinese, May 204 all
ıicken and cheese pastel, Sept 132 all
ıicken Wellington, Oct 121 all
›ttage cheese and spinach pie, Oct 206 all
ıishes, potato-onion, Jan 78 all
mb Wellington, Oct 121 all
eat pies, Quebec, Dec 158 all
ıstries, hot, to buy, fit into your pocket for winter outing, Dec 26 all
cnic pies, chicken filling, May 220 all
cnic pies, Latin, May 102 all
cnic pies, meat filling, May 220 all
e crust, adding bran, Mar 204 C, S, D
zza, create-a, Apr 205 all
zzas, deep-dish vegetable-wheat, fresh spinach, sausage filling, Oct 214 all

Baking (contd.)
—**Pies and Pastries** (contd.)
Entrées (contd.)
pizzas, deep-dish vegetable-wheat, zucchini, artichoke filling, Oct 214 all
pizzas, deep-dish vegetable-wheat, mushroom, onion filling, Oct 214 all
pork, smoked, Wellington, Oct 121 all
quiche, onion and sprout, Mar 162 all
salmon Wellington, Oct 121 all
sausage pastry snacks, Dutch, Mar 180 all
Sloppy Joe pie, Nov 168 all
tarts, ham and cheese, Apr 115 N
turnovers, ham, flaky, Dec 152 all
turnovers, mushroom, flaky, Dec 152 all
veal Wellington, Oct 121 all

Barbecuing
Barbecue, Memorial Day, May 224 all
Beef, brisket of, July 100 all
Beef, economy cuts, July 80 all
Beef strips, Korean, June 156 all
Chicken, May 200 S, D
Duck halves, Aug 119 all
Duck, Peking-style, Aug 119 all
Herb wine marinade, basting sauce, July 81 all
Hot dog bash, South American, Aug 68 all
Lamb shanks, minted, Aug 112 all
Lamb steaks, May 200 S, D
Meat, poultry, smoking, Nov 172 all
Sandwiches, teriyaki steak, June 162 all
Skewers, fish and mushroom, Sept 134 all
Steak, chuck, May 200 S, D
Tandoori mixed grill, Sept 122 all
Turkey or meats, smoking, Nov 111 all

Beverages
Drink, green, comfrey, May 242 all
Drink, Jamaica flower, July 130 all
Drink, orange, frothy, May 224 all
Drink, tamarind, July 130 all
Jasmine, lemon-mint, orange teas, Aug 120 all
Milkshake, carob-banana, Oct 234 all
101 Wines (under $5), book review, May 6 N
Punch, pink pomegranate, June 200 all
Punch, sparkling berry, June 200 all
Sangria, white wine, June 200 all
Smoothie, carob-banana, Oct 232 all
Teas, herbal, Apr 262 all
Teas, unusual, packaging for gifts, Dec 123 all

Book Reviews
Cook Book of Breads, a *Sunset* book, Dec 94 all
Mexican Cook Book, a *Sunset* book, Nov 118 all

101 Wines (under $5), May 6 N
Seafood Cook Book, a *Sunset* book, May 236 all

Candies
Candy bars, granola, Jan 88 all
Caramel nut rolls, Apr 228 all
Coconut milk candy, Apr 219 C, S, D
Dried fruit, nut sticks, glacéed, Dec 166 all
Fudgie carob balls, Oct 232 all
Granola peanut bars, Jan 88 all
Nougat, nut, Apr 228 all
Orange walnut candy, Apr 219 C, S, D
Seed bars, fruited, June 202 all
Sesame, honeyed, June 202 all

Casseroles
Asparagus, cheese strata, Mar 178 S, D
Asparagus, mustard Mornay sauce, Mar 178 S, D
Beans olé, baked, Mar 196 all
Broccoli-rice, Nov 169 all
Cabbage rolls, Charlie's, Sept 142 all
Cabbage rolls, sweet and sour, Oct 198 N, C
Chard, quick baked, Aug 110 all

Casseroles (contd.)
Chile relleno, puffy, Jan 77 all
Chiles rellenos, Rosemary's, Oct 212 all
Corn bake, Oct 212 all
Corn pie, South American, Sept 148 all
Eggplant and pasta, Dec 151 N, S, D
Eggs, ranch, with lentils, June 93 all
Enchiladas, eggplant, Oct 190 all
Fish and celery root ramekins, Feb 121 all
Frittata, mushroom, baked, May 183 all
Huachinango Chino, May 212 all
Lamb chop and stuffing, Oct 190 all
Lamb chop cassoulet, Feb 122 all
Lima beans, cheesy baked, Dec 132 all
Liver, requested, Aug 110 all
Macaroni and cheese, creamy baked, Oct 244 C, S, D
Meatless loaf, Oct 206 all
Noodles with cheese, May 190 all
Paella, Len's pantry, June 184 all
Parsnips Shaw, baked, Mar 188 all
Pastel de Montezuma, Feb 140 all
Quiche, San Jose, Dec 134 all
Rabbit, crocked, June 180 all
Ramekins, cheese custard, May 218 all
Ramekins, pasta, with ham, peas, Oct 244 C, S, D
Salmon kedgeree, Apr 115 N
Soufflé, Cheddar, with pineapple, July 100 all
Soufflé, spinach, Apr 197 all
Squash bake, curried, July 100 all
Veal in wine sauce, May 228 all
Yorkshire relleno, Apr 196 all
Zucchini surprise, Sept 140 all

Cereals and Macaroni
Bran, adding to baked goods, Mar 204 C, S, D
Cornmeal
mush, orange-ginger, May 210 all
scrapple, sausage, Oct 208 all
waffles, honey-topped, May 182 all
waffles, hot, Apr 206 all
Granola
candy bars, Jan 88 all
granola peanut bars, Jan 88 all
orange granola bars, Jan 88 all
sesame honey, Feb 120 all
Macaroni
and cheese, creamy baked, Oct 244 C, S, D
ramekins, pasta, with ham, peas, Oct 244 C, S, D
tomatoes, macaroni-stuffed, colorful, Aug 128 all
Noodles
baked, with cheese, May 190 all
beans, Italian, con noodles, July 120 all
buckwheat, May 119 all
carbonara, mushroom-onion, May 190 all
Jinn Mein, pork and vegetable, May 192 all
Jinn Mein, tomato-beef, gingery, May 192 all
pasta al pesto, May 190 all
pasta with butter, cheese, May 119 all
pasta, homemade, how to cook, May 190 all
Ray Mein, Mar 190 all
rye, May 119 all
soup, vegetable noodle, May 190 all
spinach, May 119 all
whole wheat egg, May 119 all
Oatmeal
bars, date and oat, sugarless, Oct 242 all
cookies, oatmeal chocolate-chip, big, Mar 176 all
cookies, oatmeal raisin, big, Mar 176 all
crisps, whole wheat-oatmeal, Apr 210 S, D; May 206 C
drops, spiced, Apr 210 S, D; May 206 C
oatcake, fine and vital, Oct 210 all
rolls, sweet, wheat-and-oats, Apr 210 N
Rice
casserole, broccoli-rice, Nov 169 all
game hens, papaya and curry pilaf, Mar 171 all
green herb, May 185 all
meatless loaf, Oct 206 all
Oscodar's abgusht, Nov 196 all
paella Lichtig, Nov 200 all

Cereals and Macaroni (contd.)

Rice (contd.)
Persian, for a party, May 185 all
Persian, May 184 all
Persian, with lentils, May 184 all
pilaf, lentils and leftovers, Nov 202 all
stuffing, rice and raisin, Nov 174 all
stuffing, spinach rice, Nov 174 all
with carrots, May 184 all
with fruit and spice, May 185 all
with peas and dill, May 184 all
Spaghetti, casserole, eggplant and pasta, Dec 151 N, S, D
Triticale
bread, triticale berry, Apr 226 all
bread, triticale honey, Nov 210 all
bread, triticale pumpernickel, Nov 210 all
frumenty, Apr 212 all
pilaf, Apr 226 all
porridge, Apr 226 all
salad, triticale parsley, Apr 224 all
Wheat, bulgur; game hens with pilaf and vegetables, Mar 171 all

Dairy Products and Eggs

—Butter
Easter butter lamb, Apr 200 all
Orange, fluffy, Nov 190 all
Parsley garlic, for baked potatoes, Mar 89 all

—Cheese
Cheese spread, spiced, with condiments, Apr 244 all
Cheesy baked lima beans, Dec 132 all
Cole slaw with kuminost, June 190 N, S, D
Dressing, blue cheese, Shippy's, Feb 147 all
Eye opener, shrimp and cheese, July 108 all
Fig, fresh, and ricotta tulips, June 186 all
Frittata, Parmesan and basil, Sept 130 all
Fruit, cheese, ginger dressing, June 190 N, S, D
Knishes, Jan 78 all
Macaroni and cheese, creamy baked, Oct 244 C, S, D
Meatless loaf, Oct 206 all
Pastel, chicken and cheese, Sept 132 all
Picnic pies, Latin, cheese-filled, May 102 all
Pie, cottage cheese and spinach, Oct 206 all
Pie, ricotta berry, June 157 all
Pie, yogurt cheese, Aug 111 all
Popovers, Cheddar cheese, Oct 190 all
Quesadillas, crepe, Oct 222 all
Quiche, San Jose, Dec 134 all
Salad, bean and cheese vegetable, June 190 N, S, D
Salad, blue cheese-mushroom, June 190 N, S, D
Sandwich filling, cottage cheese, Aug 117 all
Sandwiches, shrimp and cheese, May 206 N, S, D
Soufflé, Cheddar, with pineapple, July 100 all
Spread, ongoing, Dec 132 all
Tarts, ham and cheese, Apr 115 N
Torte, lemony cheese, low-calorie, Oct 240 all

—Cream
Sour-cream substitute, July 68 all

—Eggs
Buns, chicken and egg, Chinese, May 204 all
Curried egg, shrimp-stuffed tomatoes, Aug 128 all
Dip, crunchy, Mar 198 all
Enchiladas, May 218 all
Frittata, mushroom, baked, May 183 all
Frittata, Parmesan and basil, Sept 130 all
Muffins ole, scrambled-egg, May 206 N, S, D
Omelet picnic sandwiches, Basque, July 114 all
Omelet, Vietnamese, Jan 83 N, S, D
Omelet, Vietnamese, June 190 C
Omelets, asparagus, mushroom sauce, Mar 178 S, D
Peanut, Sept 120 all
Peppery, Dec 144 all
Poached, in Spanish sauce, June 157 all
Ramekins, cheese custard, May 218 all
Ranch, with lentils, June 93 all
Rocky Mountain, May 218 all

Dairy Products and Eggs (contd.)

—Eggs (contd.)
Scotch, Mar 89 all
Snacks, tortilla egg, Aug 122 all
Steamboat, Apr 214 all
Stew, chicken and egg, Nov 208d all
Stew, vegetable, with eggs, Sept 73 all
Swiss egg puffs, May 218 all

—Milk
Buttermilk dessert soups, three, July 104 all
Whipped topping, low-calorie, six flavor variations, Oct 238 all

—Yogurt
Dessert, frozen, Feb 142 all
Fruit, frozen, Aug 76 all
Peas and cheese, Indian curried, Feb 126 all
Pie, yogurt cheese, Aug 111 all
Poundcake, whole wheat yogurt, Oct 203 N, 194 C, S, D
Relish, cucumber-yogurt, Sept 123 all
Soup, potato yogurt, Mar 163 all

Desserts

(Also see Pies and Pastries, p. 17)
Apples, baked, honey crunch, Jan 77 all
Bavarian-style molds, six flavor variations, low-calorie, Oct 240 all
Citrus consomme, Oct 246 C, S, D
Cranberry puff, baked, Dec 133 all
Dessert tray, buffet for 24, Apr 120 all
Fig, fresh, and ricotta tulips, June 186 all
Flan, jicama, May 216 all
Fruit compote, brandied, Dec 139 all
Fruit delight, Hawaiian, Jan 76 all
Gelatin, two-berry, Mar 200 all
Ice Cream
homemade, cutting costs, Aug 127 N
honey custard toffee, June 164 all
parfaits, peach Melba blueberry, July 128 all
sandwiches, almost irresistible, Oct 194 N
sundae, hot cherry, Dec 164 all
sundae, red raspberry, Dec 164 all
sundae, spiced cranberry, Dec 164 all
sundaes, flaming peach Melba, July 128 all
Jicama apple crisp, May 216 all
Pudding, steamed, spicy dark, Dec 170 all
Sherbet, creamy wine, Mar 174 N, C
Sherbet, icy wine, Mar 174 N, C
Soufflés, cold, six flavor variations, low-calorie, Oct 240 all
Soup, almond buttermilk, July 104 all
Soup, dried-fruit, Scandinavian, Apr 208 all
Soup, orange buttermilk, July 104 all
Soup, sweet buttermilk, July 104 all
Strawberries in wine, Apr 199 all
Tamarind fruit dessert, July 130 all
Torte, freezer berry, July 111 all
Torte, lemony cheese, low-calorie, Oct 240 all
Yogurt, frozen, Feb 142 all
Yogurts, frozen fruit, Aug 76 all

Fish and Shellfish

Clams
bits, crispy, Nov 190 all
chowder, clams-in-shell, Nov 179 N, C
dip, clam tofu, Dec 146 all
Latin, microwave-cooked, June 198 all
steamed curried, microwave-cooked, June 198 all
Cod, smoked, barbecued, breakfast idea, Apr 131 all
Crab
and mushrooms with marrow, May 232 all
chicken breasts, crab-stuffed, July 101 all
continental, microwave-cooked, June 198 all
salad, Hegreberg, Dec 144 all
vermouth, Feb 130 all
Fish and mushroom skewers, Sept 134 all
Fish balls, breakfast idea, Apr 131 all
Fish coatings, May 236 all
Fish fillets, savory cheese-topped, June 157 all
Fish stew, Mediterranean, hot mayonnaise, Dec 156 all

Fish and Shellfish (contd.)

Fish terrine, baked, June 178 S, D
Fish, oven-fried, how to, May 236 all
Gefilte fish cold plate, Dec 139 all
Halibut
chowder, salmon and halibut, Nov 179 N, C
fish and tofu, red-braised, Apr 238 all
Herring, kippered, breakfast idea, Apr 130 all
Lingcod
fish in paper, Feb 124 all
ramekins, fish and celery root, Feb 121 all
Lobster, avocado halves filled with lobster, Apr 120 all
Oysters
canapes Phynorque, Mar 190 all
pie, beefsteak, kidney, and oyster, Mar 182 all
Red snapper, Veracruz-style, Oct 204 C, 199 S, D
Rockfish
curry, Indonesian (Gulai Ikan), Feb 126 all
fillet, breakfast idea, Apr 130 all
fish in paper, Feb 124 all
Huachinango Chino, May 212 all
stew, June 182 all
Salmon
chowder, salmon and halibut, Nov 179 N, C
kedgeree, Apr 115 N
pickled, July 134 all
salad with oranges, Mar 204 N
Wellington, Oct 121 all
Sanddabs, breakfast idea, Apr 130 all
Sardines
breakfast board, Apr 131 all
salad, sardine vegetable, Mar 204 N
Seafood, mixed, chowder, Nov 179 N, C
Shrimp
appetizer, shrimp and onion, Sept 140 all
avocado halves filled with shrimp, Apr 120 all
curry, pork, shrimp, and bamboo shoot, Burmese, Feb 127 all
eggplant slices, shrimp-topped, Nov 204 all
eye opener, shrimp and cheese, July 108 all
paella, Len's pantry, June 184 all
pâté, dilled, June 178 S, D
potted, Mar 89 all
salad, crisp, Mar 198 all
salad, Oriental, Sept 150 all
salad, shrimp and avocado, Apr 196 all
sandwiches, shrimp, cheese, baked, May 206 N, S, D
sweet and sour, microwave-cooked, June 198 all
Tandoori mixed grill, Sept 122 all
tempura, Apr 240 C, S, D
tomatoes, curried egg, shrimp-stuffed, Aug 128 all
Sole
fish rolls, Szechwan, Mar 164 all
stuffed sole princess, Feb 147 all
Trout
bacon-stuffed, May 182 all
nut-crusted, June 166 all
Tuna
dip, tuna tofu, curried, Dec 146 all
open-faced sandwich, breakfast idea, Apr 131 all
salad, tuna and fruit, Mar 204 N
sandwich, tuna and papaya, Oct 246 N
tomato stacks, tuna-avocado, Aug 128 all

Foreign Cookery

—African
Berbere (hot pepper seasoning), Nov 208d all
Dabo Kolo (crunchy appetizer bits), Nov 208d all
Dinner, Ethiopian, Nov 208b all
Doro Wat (chicken and egg stew), Nov 208d all
Injera (dinner pancakes), Nov 208d all
Wat (spicy lamb or beef stew), Nov 208d all
Yataklete Kilkil (seasoned vegetables), Nov 208d all

—Basque
Piperade (omelet picnic sandwiches), July 114 all

oreign Cookery (contd.)

Belgian
amique, Dec 94 all
affles, crisp, May 200 C

Canadian
urtieres (Quebec meat pies), Dec 158 all

Chinese
icken, soy sauce, Apr 238 all
inese broccoli spears or choy sum, cooked, Mar 103 all
inese greens, beef, stir-fried, Mar 103 all
inese greens, basic stir-fried, Mar 102 all
inese greens, how to freeze, Mar 169 all
sh and tofu, red-braised, Apr 238 all
sh rolls, Szechwan, Mar 164 all
eens, growing, cooking, shopping, Mar 102 all
y Bow (chicken and egg buns), May 204 all
rky, beef, July 126 all
n Mein, pork and vegetable, May 192 all
n Mein, tomato-beef, gingery, May 192 all
ckles, broadleaf mustard, Mar 169 all
rk, red-stewed, Apr 238 all
up, Chinese greens, Mar 103 all
ew, anise beef, Apr 238 all
rkey and green chile tumble, Dec 151 C
rkey and vegetable tumble, Dec 150 C

Cuban
up, black bean, June 169 all

Czechoslovakian
scuits, caraway, Mar 178 N, C
rk roast with black gravy, Bohemian-style, Mar 178 N, C
uerkraut, butter-sauteed, Mar 178 N, C

Dutch
mandelbroodjes (almond snacks), Mar 180 all
tterballen, May 231 all
ucijzebroodjes (sausage snacks), Mar 180 all

English
ns, Bath, Apr 115 C, S, 241 N
tter, parsley garlic, for baked potatoes, Mar 89 all
ke, filbert and date, Mar 182 all
ke, walnut, Mar 182 all
gs, Scotch, Mar 89 all
ives with rosemary, garlic, Mar 89 all
e, beefsteak, kidney, and oyster, Mar 182 all
rk, potted, Mar 89 all
lad, chicken, potato, with basil, Mar 89 all
lly Lunn, Old English, Apr 115 C, S, 241 N
rimp, potted, Mar 89 all

French
te de Campagne (country-style), July 103 all
cnic, Bastille Day, July 102 all
ulet Roti aux Herbes (roast chicken with herbs), July 103 all
atatouille (summer-vegetable stew), July 103 all
rt aux Pommes (apple tart), Nov 214 all

German, Austrian, Swiss
napes, Braunschweiger, Brie, Oct 192 all
ied fruit, nut sticks, glacéed, Dec 166 all
ngerbread squares, Oct 192 all
ad cheese in vinaigrette sauce, Oct 192 all
ns, roasted, currant-glazed, Oct 192 all
toberfest party, Oct 192 all
etzels, soft, Oct 230 all
uerbraten, Rhenish-style, Apr 230 all
usages in sweet mustard sauce, Oct 192 all
nitzel, July 122 all
w, apple and cabbage, Oct 192 all

Guatemalan
petizer supper party, Nov 170 all
quitas (appetizer tortillas), Nov 170 all

Hawaiian
i Kaula (jerky), Oct 210 all

Foreign Cookery (contd.)

—Indian
Kulcha, onion, Sept 123 all
Mattar Pannir (curried cheese, peas), Feb 126 all
Relish, cucumber-yogurt, Sept 123 all
Roghan Josh (Pakistani lamb curry), Feb 126 all
Tandoori mixed grill, Sept 122 all

—Italian
Brunch buffet, Sept 130 all
Caponata alla Allardicci, May 215 all
Frittata, Parmesan and basil, Sept 130 all
Salad, antipasto, Mar 162 all
Salad, antipasto, May 222 all
Sausages, Italian, green pepper sauce, Sept 132 all
Veal in wine sauce, May 228 all
Veal shanks, garlic, lemon-simmered, Feb 142 all

—Japanese
Chicken Kara Age, Aug 132 all
Tempura, Apr 240 C, S, D

—Jewish
Fricassee, sweet and sour, Oct 199 N, C
Fruit compote, brandied, Dec 139 all
Gefilte fish cold plate, Dec 139 all
Goose, roast, Dec 139 all
Hanukkah feast, Fec 138 all
Holishkes (sweet-sour cabbage rolls), Oct 198 N, C
Knishes, cheese, Jan 78 all
Knishes, potato-onion, Jan 78 all
Latkes (potato pancakes), Dec 139 all
Soup, cranberry, sweet and sour, Dec 139 all

—Mexican
Crêpes, chicken, Dec 154 all
Drink, Jamaica flower, July 130 all
Drink, tamarind, July 130 all
Jalapeños en Escabeche (pickled jalapeños), Sept 84 all
Pan de Anis (anise bread), Feb 132 all
Pancake, oven, chile beef filling, June 178 N
Panuchos, Oct 204 N, S, D
Pastel de Montezuma, Feb 140 all
Red snapper, Veracruz-style, Oct 204c, 199 S, D
Tamales, chicken corn, Nov 118 all
Tamales, red chile pork, Nov 118 all

—Middle Eastern
Chicken with carrots, kumquats, May 186 all
Chicken with lentils, May 186 all
Dinner, company, from Greece, Sept 132 all
Fila pastry, apple-filled, May 208 all
Fila triangles, apple-filled, May 208 all
Lamb or beef with eggplant, May 185 all
Lamb shanks with green beans, May 186 all
Oscodar's abgusht, Nov 196 all
Rice, green herb, May 185 all
Rice, Persian, May 184 all
Rice, Persian, with lentils, May 184 all
Rice with carrots, May 184 all
Rice with fruit and spice, May 185 all
Rice with peas and dill, May 184 all
Short ribs with prunes, spinach, May 186 all
Skewers, fish and mushroom, Sept 134 all
Stew, Libyan, Jan 84 all

—Russian
Krendl, Dec 94 all

—Scandinavian
Cake, upside-down, Swedish, Dec 160 N, C
Cardamom wreath, Swedish, Dec 94 all
Fyllda Strutar (strawberry meringue-filled cornucopias), Apr 198 all
Soup, almond buttermilk, July 104 all
Soup, dried-fruit, Apr 208 all
Soup, orange buttermilk, July 104 all
Soup, sweet buttermilk, July 104 all

Foreign Cookery (contd.)

—South American
Bread, guava-filled, Colombian, May 195 all
Breads, bran, Colombian, May 196 all
Empañadas (Latin picnic pies), May 102 all
Hot dog bash, Aug 68 all
Papas Chorreadas (Columbia potatoes with cheese), Jan 92b C, S, D; June 173 N
Pastel de Choclo (corn pie), Sept 148 all
Sobrebarriga (Columbian flank steak), Jan 92 C, S, D; June 172 N

—Southeast Asian
Beef curry, Indonesian, Feb 81 all
Beef in grape leaves, Vietnamese, Nov 218 all
Beef strips, Korean, June 156 all
Chicken curry, Nepal-style, Feb 81 all
Goi Ga, Vietnamese chicken salad, Mar 206 all
Gulai Ikan (Indonesian fish curry), Feb 126 all
Kaeng Phet Kai (Thai chicken curry), Feb 81 all
Kare Ayam (Indonesian chicken curry), Feb 81 all
Murg Masalam (North Indian chicken curry), Feb 81 all
Omelet, Vietnamese, Jan 83 N, S, D; June 190 C
Pork, shrimp, and bamboo shoot curry, Burmese, Feb 127 all
Sambel Udang Terong (shrimp-topped eggplant slices), Nov 204 all
Sayur Lodeh (Indonesian vegetables), Nov 206 all
Tortilla egg snacks, Aug 122 all

—West Indies
Consommé, citrus, Oct 246 C, S, D

Fruit
(See also Fruit, Dried)
Apples
baked, honey crunch, Jan 77 all
bread, apple rye, Dec 142 all
chutney, fig and apple, Sept 152 all
fila pastry, apple-filled, May 208 all
fila triangles, apple-filled, May 208 all
on cinnamon toast, Aug 140 all
pie, apple nut, upside-down, Mar 186 all
pie, rhubarb apple berry, May 183 all
pizza, Apr 232 all
salad, alfalfa sprouts and apple, June 156 all
salad, tuna and fruit, Mar 204 N
sandwich, smoked sausage and apple, Oct 246 N
sauce, cran-apple pear, Nov 208 all
slaw, apple and cabbage, Oct 192 all
swirls, apple-and-prune, Apr 211 N
tart, French, Nov 214 all
Apricots
pastry, fresh fruit, June 164 all
yogurt, apricot-orange, frozen, Aug 76 all
Avocados
entrée buffet for 24, filled avocado halves, Apr 120 all
patties, avocado beef, Aug 110 all
salad, shrimp and avocado, Apr 196 all
soup, chilled, June 156 all
tomato stacks, tuna-avocado, Aug 128 all
Bananas
and peanut butter on toast, Aug 140 all
coffee ring, May 224 all
jam, Nov 176 N, 179 S, D
kebabs, curried chicken and fruit, Apr 196 all
milkshake, carob-banana, Oct 234 all
pie, aloha, Mar 198 all
pie, peanut banana, Jan 80 all
sandwich, bacon and banana, Oct 246 N
smoothie, carob-banana, Oct 232 all
yogurt, banana-honey, frozen, Aug 76 all
Berries
berry torte, freezer, July 111 all
blackberries
pie, ricotta berry, June 157 all
yogurt, frozen, Aug 76 all
blueberries
cake, spicy, July 101 all
parfaits, peach Melba blueberry, July 128 all
yogurt, frozen, Aug 76 all

Fruit (contd.)
Berries (contd.)
cranberries
crêpes, cranberry, with orange sauce, Nov 188 all
pie, cranberry persimmon, Nov 169 all
puff, baked, Dec 133 all
sauce, cran-apple pear, Nov 208 all
sauce, cranberry citrus, warm, Nov 208 all
sauce, cranberry horseradish, Nov 208 all
sauce, cranberry raisin-nut, Nov 208 all
soup, sweet and sour, Dec 139 all
sundae, spiced, Dec 164 all
whipped topping, cranberry chiffon, low-calorie, Oct 240 all
raspberries
gelatin, two-berry, Mar 200 all
parfaits, peach Melba blueberry, July 128 all
sundae, red raspberry, Dec 164 all
sundaes, flaming peach Melba, July 128 all
yogurt, frozen, Aug 76 all
strawberries
buttermilk fruit ring, Aug 112 all
cornucopias, strawberry meringue-filled, Apr 198 all
in wine, Apr 199 all
pie, rhubarb apple berry, May 183 all
tart, crown, Mar 174 S, D
torte, cardamom, strawberry-topped, Apr 198 all
torte, frozen strawberry cream, Mar 174 S, D
vinegar, fresh, July 132 all
Cherries
game hens, flaming cherry sauce, Mar 171 all
Gateau St. Honore, June 160 N, 178 C
pastry, fresh fruit, June 164 all
spareribs, cherry, Jan 81 all
squares, spicy, Feb 121 all
sundae, hot, Dec 164 all
sweet cherries and cheese on toast, Aug 140 all
Figs
chutney, fig and apple, Sept 152 all
fig, fresh, and ricotta tulips, June 186 all
Grapefruit, consommé, citrus, Oct 246 C, S, D
Guavas, bread, guava-filled, Colombian, May 195 all
Kumquats, and carrots with chicken, May 186 all
Lemons
pie, chiffon, light, May 234 all
pie, double-crust, May 234 all
salad, lemon vegetable, July 101 all
torte, lemony cheese, low-calorie, Oct 240 all
whipped topping, lemon chiffon, low-calorie, Oct 240 all
Melons
cantaloupes
buttermilk fruit ring, Aug 112 all
Nectarines, chutney, nectarine and date, Sept 152 all
Olives
rarebit, mushroom olive, over sausage-topped muffins, Apr 115 N
salad, almond olive, Nov 190 all
with rosemary and garlic, Mar 89 all
Oranges
cake, carob-orange, Oct 234 all
candy, orange walnut, Apr 219 C, S, D
consommé, citrus, Oct 246 C, S, D
drink, frothy, May 224 all
salad, coriander fruit, June 166 all
salad, mushroom-orange, Feb 120 all
salad, salmon, with oranges, Mar 204 N
sandwich, chicken and orange, Oct 246 N
soup, orange custard, Apr 202 all
whipped topping, orange chiffon, low-calorie, Oct 240 all
yogurt, apricot-orange, frozen, Aug 76 all
Papayas
fruit delight, Hawaiian, Jan 76 all
game hens with papaya-curry pilaf, Mar 171 all
kebabs, curried chicken and fruit, Apr 196 all
sandwich, tuna and papaya, Oct 246 N
yogurt, frozen, Aug 76 all

Fruit (contd.)
Peaches
buttermilk fruit ring, Aug 112 all
coffee cake, Sept 144 all
nut roll with peaches, Aug 127 C
parfaits, peach Melba blueberry, July 128 all
sundaes, flaming peach Melba, July 128 all
yogurt, frozen, Aug 76 all
Pears
chutney, plum and pear, Sept 152 all
chutney, tomato and pear, Sept 152 all
coffee cake, Sept 144 all
fruit and cheese, ginger dressing, June 190 N, S, D
sauce, cran-apple pear, Nov 208 all
Persimmons
pie, cranberry persimmon, Nov 169 all
pudding, steamed, spicy dark, Dec 170 all
Pineapple
buns, upside-down, Apr 211 N
fruit delight, Hawaiian, Jan 76 all
kebabs, curried chicken and fruit, Apr 196 all
pie, aloha, Mar 198 all
salad, coriander fruit, June 166 all
sandwich, ham and pineapple, Oct 246 N
souffle, Cheddar, with pineapple, July 100 all
with chutney on toast, Aug 140 all
Plums
chutney, plum and pear, Sept 152 all
cobbler, purple plum, nut-topped, Sept 128 N
coffee cake, fresh plum, Sept 144 all
marmalade, purple plum, Sept 128 N
spiced wine-poached, Sept 128 N, 129 S, D
tart, cherry plum, July 124 all
tart, purple plum streusel, Sept 128 C, 129 S, D
Rhubarb
bread, tea, June 174 all
muffins, June 174 all
pie, rhubarb apple berry, May 183 all
Summer salad, Aug 111 all

Fruit, Dried
Apricots
cake, upside-down, apricot-prune, Oct 228 all
stuffing, fruit and sausage, Nov 169 all
whipped topping, apricot chiffon, low-calorie, Oct 240 all
Coconut
candy, coconut milk, Apr 219 C, S, D
cooky sandwiches, Nov 212 all
fudgie carob balls, Oct 232 all
orange coconut crisps, Nov 212 all
pie, aloha, Mar 198 all
tart, June 192 all
Dates
bars, date and oat, sugarless, Oct 242 all
cake, filbert and date, Mar 182 all
chutney, nectarine and date, Sept 152 all
cookies, freezer date, sugarless, Oct 242 all
crescents, date-filled, Apr 211 N
Dried fruit and nut sticks, glacéed, Dec 166 all
Dried fruit soup, Scandinavian, Apr 208 all
Fruitcake, zucchini, Sept 146 all
Prunes
and spinach with short ribs, May 186 all
cake, upside-down, apricot-prune, Oct 228 all
sandwich, Braunschweiger and prune, Oct 246 N
stuffing, fruit and sausage, Nov 169 all
swirls, apple-and-prune, Apr 211 N
Raisins
sauce, cranberry raisin-nut, Nov 208 all
stuffing, rice and raisin, Nov 174 all

Meat
Bacon
canapés Phynorque, Mar 190 all
crêpewich, BLT, Oct 222 all
sandwich, bacon and banana, Oct 246 N
Beef
barbecuing inexpensive cuts, July 80 all
brisket, barbecued, July 100 all
brisket, smoking, Nov 172 all
chile, Rocky Mountain, Sept 120 all
curry, Indonesian, Feb 81 all
jerky, Chinese, July 126 all

Meat (contd.)
Beef (contd.)
jerky, Hawaiian, Oct 210 all
Jinn Mein, tomato-beef, gingery, May 192 all
picnic pies, meat filling, May 220 all
pies, beefsteak, kidney, and oyster, Mar 182 all
roast, chuck, two dinners for four, May 188 N, S, D
roast, pot, Puerto Rican, June 182 all
roasts, smoking, Nov 172 all
sauerbraten, Rhenish-style, Apr 230 all
sauté, Hungarian, May 188 N, S, D
short ribs, chile sauce, Mar 162 all
short ribs with prunes, spinach, May 186 all
steak, chuck, barbecued, May 200 S, D
steak, flank, Colombian, Jan 92 C, S, D; June 172 N
steak, Swiss, and vegetables, teriyaki, Mar 194 all
steak, Swiss, barbecue-style, Mar 194 all
steak, Swiss, chile with beans, Mar 194 all
steak, teriyaki, sandwiches, June 162 all
stew, anise beef, Apr 238 all
stew, beef and bean, June 169 all
stew, Hungarian, May 188 N, S, D
stew, spicy, Nov 208d all
stir-fried, with Chinese greens, Mar 103 all
strips, Korean, June 156 all
with eggplant, May 185 all
Beef, ground
beanghetti, Nov 198 all
chile with beans, dad's special, Apr 206 all
fricassee, sweet and sour, Oct 199 N, C
in grape leaves, Vietnamese, Nov 218 all
meat loaf, spinach-swirled, Oct 226 all
meatball minestrone, Jan 76 all
meatballs, with vegetables, Aug 130 all
Mexi-muffins, muy macho, July 119 all
pancake, oven, chile beef filling, June 178 N; Oct 203 C, S, D
patties, avocado beef, Aug 110 all
picnic rolls, meat-filled, May 183 all
pie, Sloppy Joe, Nov 168 all
quiche, San Jose, Dec 134 all
soup, meatball vegetable, Mar 200 all
Spanish gunk, tortilla filling, Feb 144 all
stew, meatball and garbanzo, June 170 all
Braunschweiger, sandwich, Braunschweiger and prune, Oct 246 N
Frankfurters
crêpe, Polish, Oct 222 all
franks, open-faced, Aug 114 all
hot dog bash, South American, Aug 68 all
Ham
bitterballen, May 231 all
Paella Lichtig, Nov 200 all
ramekins, pasta, with ham, peas, Oct 244 C, S, D
sandwich, ham and pineapple, Oct 246 N
tarts, ham and cheese, Apr 115 N
turnovers, flaky, Dec 152 all
with artichokes, mushrooms, creamy, Apr 206 all
Kidney
pie, beefsteak, kidney, and oyster, Mar 182 all
Sauté Robert, Mar 188 all
Kidneys, and mushrooms, creamy, Apr 115 N
Lamb
braised, in lemon sauce, Feb 123 all
casserole, lamb chop and stuffing, Oct 190 all
chop cassoulet, Feb 122 all
corn bread pizza, Sept 121 all
curry, Pakistani (Roghan Josh), Feb 126 all
curry, planned-over, Feb 123 all
leg of, cooking for two, five meals, Feb 122 all
meatballs, lemon-mint, Mar 163 all
Oscodar's Abgusht, Nov 196 all
picnic pies, meat filling, May 220 all
roast, rolled herbed, Feb 123 all
roasts, smoking, Nov 173 all
shanks with green beans, May 186 all
shanks, grilled minted, Aug 112 all
soup, lamb shank bean, June 170 all
steaks, grilled, May 200 S, D
steaks with parsley butter, Feb 123 all
stew, Libyan, Jan 84 all
stew, pumpkin patch lamb, Oct 224 all

at (contd.)
ıb (contd.)
ew, spicy, Nov 208d all
ındoori mixed grill, Sept 122 all
ellington, Oct 121 all
ith eggplant, May 185 all
er
igado Diablo, Jan 84 all
ité, country-style, July 103 all
quested, Aug 110 all
rrow with crab and mushrooms, May 232 all
ats, smoking in barbecue, Nov 111 all
k
tterballen, May 231 all
ırry, pork, shrimp, and bamboo shoot, Burmese, Feb 127 all
ad cheese in vinaigrette sauce, Oct 192 all
nn Mein, pork and vegetable, May 192 all
eat pies, Quebec, Dec 158 all
anuchos, Oct 204 N, S, D
âté, country-style, July 103 all
cnic pies, meat filling, May 220 all
otted, Mar 89 all
ay Mein, Mar 190 all
d-stewed, Apr 238 all
oast, Bohemian-style, black gravy, Mar 178 N, C
oast, with soy-garlic baste, Feb 120 all
oasts, smoking, Nov 172 all
oareribs, cherry, Jan 81 all
oareribs, jalapeño, Oct 218 all
eaks, braised, May 200 S, D
weet and sour, oven, Oct 191 all
ımales, red chile pork, Nov 118 all
ellington, smoked, Oct 121 all
bbit, crocked, June 180 all
ami
erb beef, June 99 all
noky beef, June 98 all
icy beef, June 99 all
ısage
urritos, Jan 80 all
sweet mustard sauce, Oct 192 all
alian, in green pepper sauce, Sept 132 all
lexi-muffins, muy macho, July 119 all
aella Lichtig, Nov 200 all
ancake, oven, Italian sausage filling, June 178 N; Oct 203 C, S, D
ıstry snacks, Dutch, Mar 180 all
cnic rolls, meat-filled, May 183 all
ızza squares, May 206 N, S, D
ızzas, deep-dish vegetable-wheat, fresh spinach, sausage filling, Oct 214 all
olish crêpe, Oct 222 all
ırebit, mushroom olive, over sausage-topped muffins, Apr 115 N
ılad, escarole and sausage, Mar 184 all
ındwich, smoked sausage and apple, Oct 246 N
crapple, Oct 208 all
oup, sausage and bean, June 169 all
uffing, fruit and sausage, Nov 169 all
eetbreads, sherried, a l'orange, Mar 192 all
ngue, beef, smoking, Nov 172 all
al
itterballen, May 231 all
n wine sauce, May 228 all
âté, country-style, July 103 all
chnitzel, July 122 all
hanks, garlic and lemon-simmered, Feb 142 all
ellington, Oct 121 all

enus
Breakfasts
ntinental (fresh fruit pastries), June 164 all
m's special (banana coffee ring), May 224 all
ndwich, June 172 C, S, D
ndwich (buttermilk biscuits), Oct 226 all
ve-yourself breakfast that waits, July 108 all
lentine's Day (buttermilk scone hearts), eb 136 all

Brunches
ffet, Italian (Parmesan and basil frittata), ept 130 all
sserole, Mexican, Dec 134 all

Menus (contd.)
—Brunches (contd.)
Easter morning, victorian-style, Apr 114 N
Easter, special (ham dish), Apr 206 all
Serve-yourself breakfast that waits, July 108 all
Weekend pancake, Nov 188 all

—Buffets
Brunch, Italian (Parmesan and basil frittata), Sept 130 all
Casserole, Mexican, Feb 140 all
Dinner, Halloween (pumpkin patch lamb stew), Oct 224 all
Pub party, Mar 88 all
Reception sandwich, June 159 all
Tandoori-style barbecue, Sept 122 all
Thanksgiving picnic (turkey), Nov 111 all
Tray-buffet for 24, Apr 120 all
Tree trimming (mushroom or ham turnovers), Dec 152 all
Walnut bread, Dec 134 all
Wedding salad, June 159 all

—Dinners
Barbecue (lamb shanks), Aug 112 all
Buffet, Halloween (lamb stew), Oct 224 all
Candlelight, Italian (veal shanks), Feb 140 all
Company, from Greece (fish and mushroom skewers), Sept 132 all
Crêpe, Mexican, Dec 154 all
Dijon, Jan 81 all
Ethiopian, Nov 208b all
Guest, Italian (veal in wine sauce), May 226 all
Hanukkah feast, Dec 138 all
Oven, autumn, Oct 226 all
Soup, homemade, Mar 200 all
Thanksgiving for six, Nov 186 all
Thanksgiving, traditional feast (smoked roast turkey), Nov 111 all
Trout, June 166 all

—Lunches
Lunch favorites in disguise (open-faced franks), Aug 114 all
Midsummer (chicken noodle salad), July 108 all

—Parties
Crêpe, May 200 N, 188 C
Hot dog bash, South American, Aug 68 all
Oktoberfest, Oct 192 all
Pizza, home-style, Apr 205 all
Pub buffet, Mar 88 all
Soup, homemade, Dec 76 all
Tray-buffet for 24, Apr 120 all

—Picnics
Back-yard (teriyaki steak sandwiches), June 162 all
Barbecue, Memorial Day (Mexican-style), May 224 all
Bastille Day, July 102 all
Holiday weekend (Sonora salad), July 107 all
In the park (pork, bean casserole), Mar 196 all
Thanksgiving buffet (smoked turkey), Nov 111 all

—Suppers
Dad's night to cook (chile and waffles), Apr 206 all
Fish stew, Dec 156 all
Midsummer (chicken noodle salad), July 108 all
Pie, Mexican, (chicken-cheese pastel), Sept 132 all
Salad, island, Mar 198 all
Salad sandwich, Aug 114 all
Seafood, speedy, Nov 190 all
Winter, with cherry spareribs, Jan 81 all
Young cook's German-style burritos, Jan 80 all

Microwave Cookery
Clams, Latin, June 198 all
Clams, steamed curried, June 198 all
Crab, continental, June 198 all
Eggs, peppery, Dec 144 all
Pudding, steamed, spicy dark, Dec 170 all
Shrimp, sweet and sour, June 198 all

Miscellaneous
Apple peeler, Sept 177 N, 173 C, 175 S, D
Food dryers, home-built, ideas for uses from gardener-cooks, Aug 142d S, D
Food gifts by mail, catalogs, Nov 120 all
Food gifts by mail, Dec 130 all
Food processor machines, Mar 140 all
Gift tools for the baker, Dec 137 all
Nutrition, *Sunset's* common-sense approach, Aug 176 all

Nuts
Almonds
caramel nut rolls, Apr 228 all
nougat, nut, Apr 228 all
nut roll with peaches, Aug 127 C
pastry snacks, Dutch, Mar 180 all
salad, almond olive, Nov 190 all
Chestnuts with soy chicken, Nov 194 all
Dried fruit and nut sticks, glacéed, Dec 166 all
Filberts
cake, filbert and date, Mar 182 all
fish coating, sour cream and filbert, May 236 all
Peanuts
peanut eggs, Sept 120 all
pie, peanut banana, Jan 80 all
Pecans
buns, nut, upside-down, Apr 211 N
nut roll with peaches, Aug 127 C
pie, apple nut, upside-down, Mar 186 all
Walnuts
buns, nut, upside-down, Apr 211 N
cake, Mar 182 all
candy, orange walnut, Apr 219 C, S, D
loaf, Alsatian, Dec 134 all
pie, apple nut, upside-down, Mar 186 all

Poultry
Chicken
and dumplings, Apr 216 all
avocado halves filled with chicken, Apr 120 all
barbecued or broiled, May 200 S, D
breasts, crab-stuffed, July 101 all
buns, chicken and egg, Chinese, May 204 all
crêpes, Mexican, Dec 154 all
curry, Indonesian (Kare Ayam), Feb 81 all
curry, Nepal-style, Feb 81 all
curry, North Indian, Feb 81 all
curry, Thai, Feb 81 all
Dijon, Jan 81 all
eight precious gold coins, Apr 214 all
fricassee, sweet and sour, Oct 199 N, C
garlic celebration, Sept 138 all
Kara Age, Aug 132 all
kebabs, curried chicken and fruit, Apr 196 all
legs, crispy oven-baked, Dec 133 all
Manhattan, Jan 86 all
Monte Cristos, chicken-chile, May 206 N, S, D
north coast, Aug 134 all
Paella, Len's pantry, June '84 all
Paella Lichtig, Nov 200 all
pastel, chicken and cheese, Sept 132 all
pastel de Montezuma, Feb 140 all
picnic pies, chicken filling, May 220 all
roast, with herbs, July 103 all
salad bowl, chicken noodle, July 108 all
salad, chicken and potato, with basil, Mar 89 all
salad, Vietnamese, Mar 206 all
sandwich, chicken and orange, June 172 C, S, D; Oct 246 N
soup, chicken custard, Apr 202 all
soup, kohlrabi chicken, June 196 all
soy chicken with chestnuts, Nov 194 all
soy sauce, Apr 238 all
stew, chicken and egg, Nov 208d all
tamales, chicken corn, Nov 118 all
Tandoori mixed grill, Sept 122 all
Wellington, Oct 121 all
whole, smoking, Nov 173 all
with butter limas, June 169 all
with carrots, kumquats, May 186 all
with lentils, May 186 all

Poultry (contd.)
Duck
barbecued halves, Aug 119 all
barbecued, Peking-style, Aug 119 all
Goose, roast, Dec 139 all
Rock Cornish game hens
baked stuffed, Mar 171 all
roasted, currant-glazed, Oct 192 all
with flaming cherry sauce, Mar 171 all
with papaya and curry pilaf, Mar 171 all
with pilaf and vegetables, Mar 171 all
Turkey
and green chile tumble, Dec 151 C
and vegetable tumble, Dec 150 C
breasts, smoking, Nov 173 all
oven-roasted, chestnut bread stuffing, Nov 186 all
parts, crusty oven-fried, July 116 all
parts, oven-barbecued, July 116 all
pastel de Montezuma, Feb 140 all
roast smoked, Nov 111 all
smoking in barbecue, Nov 111 all
stuffing, fruit and sausage, Nov 169 all
stuffing, rice and raisin, Nov 174 all
stuffing, spinach rice, Nov 174 all

Preserving
—Conserves, Jams, Jellies, Preserves, Butters
Banana jam, Nov 176 N, 179 S, D
Fig and apple chutney, Sept 152 all
Nectarine and date chutney, Sept 152 all
Plum and pear chutney, Sept 152 all
Purple plum marmalade, Sept 128 N
Red pepper jam, spicy, Oct 248 all
Tomatillo jam, Aug 125 all
Tomato and pear chutney, Sept 152 all

—Freezing
Chinese greens, Mar 169 all
Peppers, Sept 85 all

—Pickles
Broadleaf mustard, Mar 169 all
Pepper, refrigerator, Sept 84 all

—Relishes
Bell pepper, sweet, strips, Oct 248 all
Chile peppers, pickled whole, Sept 84 all
Jalapeños, pickled, Sept 84 all
Plums, spiced wine-poached, Sept 128 N, 129 S, D
Tomatillo, sweet, Aug 125 all
Tomato and chile salsa, crunchy, Sept 85 all
Zucchini, spiced, Aug 111 all

Salad Dressings
Basic cream, July 69 all
Bean marinade, June 93 all
Blue cheese, Shippy's, Feb 147 all
Chutney, low-calorie, July 69 all
Fruit, orange-ginger, low-calorie, July 69 all
Green Goddess, low-calorie, July 69 all
Lemon-thyme, June 159 all
Mustard-tarragon, June 159 all
Onion, creamy, June 159 all
Roquefort cheese, low-calorie, July 69 all
Thousand Island, low-calorie, July 69 all

Salads
Alfalfa sprouts and apple, June 156 all
Almond olive, Nov 190 all
Antipasto, Italian, Mar 162 all
Antipasto, May 222 all
Bean and cheese vegetable, June 190 N, S, D
Bean, create-your-own, June 93 all
Bean, lunch or supper, June 93 all
Bean, marinated Italian, May 202 N
Blue cheese-mushroom, June 190 N, S, D
Buffet, June 159 all
Buttermilk fruit ring, Aug 112 all
Chicken and potato, with basil, Mar 89 all

Salads (contd.)
Chicken noodle salad bowl, July 108 all
Chicken, Vietnamese, Mar 206 all
Cole slaw with kuminost, June 190 N, S, D
Cole slaw, chef's, Apr 210 C
Coriander fruit, June 166 all
Escarole and sausage, Mar 184 all
Fiesta, May 226 all
Fruit and cheese, ginger dressing, June 190 N, S, D
Fruit delight, Hawaiian, Jan 76 all
Hegreberg, Dec 144 all
Lemon vegetable, July 101 all
Lima, baby, Sept 120 all
Mushroom bowl, chilled, Nov 180 all
Mushroom-orange, Feb 120 all
Pea, green, crunchy, May 202 N
Romaine, Oriental wilted, Nov 168 all
Salmon, with oranges, Mar 204 N
Sardine vegetable, Mar 204 N
Shrimp and avocado, Apr 196 all
Shrimp, crisp, Mar 198 all
Shrimp, Oriental, Sept 150 all
Slaw a la Snow, Feb 144 all
Slaw, apple and cabbage, Oct 192 all
Slaw, cabbage, overnight, May 202 N
Slaw, fruit and nut, Apr 210 C
Slaw, Oriental cabbage, May 182 all
Slaw, sweet, June 164 all
Slaw, vegetable, crunchy, Apr 210 C
Sonora, July 107 all
Spinach, Oregon, Mar 184 all
Summer, Aug 111 all
Thinning, May 202 C, S, D
Tomato stacks, tuna-avocado, Aug 128 all
Tomatoes, curried egg, shrimp-stuffed, Aug 128 all
Tomatoes, macaroni-stuffed, colorful, Aug 128 all
Triticale parsley, Apr 224 all
Tuna and fruit, Mar 204 N
Vegetable medley, marinated, Nov 180 all
Vegetable-spinach, Aug 114 all

Sandwiches
Bacon and banana, June 172 C, S, D; Oct 246 N
Braunschweiger and prune, June 172 C, S, D; Oct 246 N
Breakfast, six ideas, June 172 C, S D; Oct 246 N
Buffet, June 159 all
Burritos, sausage, Jan 80 all
Burritos, vegetable, Sept 72 all
Caraway, creamy, spread, June 159 all
Chicken and orange, June 172 C, S, D
Chicken and orange, Oct 246 N
Cottage cheese, zippy filling, Aug 117 all
Crêpe, Polish, Oct 222 all
Crêpe quesadillas, Oct 222 all
Crêpe stack, chilled, Dec 162 all
Crêpewich, BLT, Oct 222 all
Franks, open-faced, Aug 114 all
Ham and pineapple, June 172 C, S, D; Oct 246 N
Hot dog bash, South American, Aug 68 all
Lemon-caper spread, June 159 all
Mexi-muffins, muy macho, July 119 all
Monte Cristos, chicken-chile, May 206 N, S, D
Muffins olé, scrambled-egg, May 206 N, S, D
Mushrooms, marinated, filling, Aug 117 all
Mustard-chive mayonnaise spread, June 159 all
Omelet picnic, Basque, July 114 all
Peanut eggs, Sept 120 all
Picnic rolls, meat-filled, May 183 all
Sausage pastry snacks, Dutch, Mar 180 all
Sausage pizza squares, May 206 N, S, D
Sausage, smoked, and apple, June 172 C, S, D; Oct 246 N
Shrimp and cheese, baked, May 206 N, S, D
Steak, teriyaki, June 162 all
Tortilla egg snacks, Aug 122 all
Tuna and papaya, June 172 C, S, D; Oct 246 N
Tuna, open-faced, breakfast idea, Apr 131 all
Vegetable-toss pocket, May 206 N, S, D
Zucchini-carrot slaw filling, Aug 117 all

Sauces & Syrups
Chile, dried, Sept 125 all
Cran-apple pear, Nov 208 all
Cranberry citrus, warm, Nov 208 all
Cranberry horseradish, Nov 208 all
Cranberry raisin-nut, Nov 208 all
Herb wine marinade, basting sauce, July 81 all
Horseradish, fluffy, Dec 132 all
Marinade and basting, wine, May 200 S, D
Mayonnaise, spicy hot, Dec 156 all
Mustard, Modoc, Apr 216 all
Orange-ginger syrup, May 210 all
Parmesan topping, low-calorie, July 69 all
Potato, baked, topping, low-calorie, July 69 all
Tartar, low-calorie, July 69 all
Tempura dipping, Apr 240 C, S, D

Soups
Avocado, chilled, June 156 all
Beans, "West Texas strawberries", Aug 134 all
Beef and bean stew, June 169 all
Black bean, Cuban, June 169 all
Butter limas with chicken, June 169 all
Chicken custard, Apr 202 all
Chile, Rocky Mountain, Sept 120 all
Chinese greens, Mar 103 all
Chowder, clams-in-shell, Nov 179 N, C
Chowder, mixed seafood, Nov 179 N, C
Chowder, salmon and halibut, Nov 179 N, C
Cranberry, sweet and sour, Dec 139 all
Crookneck with chives, creamy, Aug 138 all
Fish stew, Mediterranean, with spicy hot mayonnaise, Dec 156 all
Kohlrabi chicken, June 196 all
Lamb shank bean, June 170 all
Lentil stew, Mexican, Nov 202 all
Lentil-vegetable, with meatballs, Nov 202 all
Meatball and garbanzo stew, June 170 all
Meatball minestrone, Jan 76 all
Meatball vegetable, Mar 200 all
Onion, party, Dec 77 all
Orange custard, Apr 202 all
Pea and bean, spiced, May 212 all
Potato yogurt, Mar 163 all
Pumpkin, creamy, Nov 168 all
Rockfish stew, June 182 all
Sausage and bean, June 169 all
Shrimp and cheese eye opener, July 108 all
Split pea, hearty, Dec 77 all
Stew, anise beef, Apr 238 all
Stew, Hungarian beef, May 188 N, S, D
Stew, Libyan, Jan 84 all
Stew, pumpkin patch, lamb, Oct 224 all
Summer savory and green beans, Aug 138 all
Summer-vegetable stew, July 103 all
Tomato-chile with fresh coriander, Aug 138 all
Vegetable noodle, May 190 all
Yam, tomato, carrot, onion, Nov 198 all

Vegetables
Artichokes
ham, with mushrooms, creamy, Apr 206 all
pizzas, deep-dish vegetable-wheat, zucchini, artichoke filling, Oct 214 all
Asparagus
asparagus cheese strata, Mar 178 S, D
omelets with mushroom sauce, Mar 178 S, D
with mustard Mornay sauce, Mar 178 S, D
Beans
baked, olé, Mar 196 all
beanghetti, Nov 198 all
broth-cooked, June 93 all
butter limas with chicken, June 169 all
chile beans, jalapeño, Oct 220 all
chile, Rocky Mountain, Sept 120 all
chile with beans, Dad's special, Apr 206 all
con noodles, Italian, July 120 all
dried, preparation, recipes, June 90 all
green, and summer savory, Aug 138 all
green, with lamb shanks, May 186 all

getables (contd.)
ns (contd.)
ima, baby, salad, Sept 120 all
ima, cheesy baked, Dec 132 all
achos supper, quick, June 93 all
anuchos, Oct 204 N, S, D
alad, bean and cheese vegetable, June 190 N, S, D
alad, create-your-own, June 93 all
alad, marinated Italian, May 202 N
alads, lunch or supper, June 93 all
auté, garden patch, Sept 121 all
oup, black bean, Cuban, June 169 all
oup, lamb shank bean, June 170 all
oup, pea and bean, spiced, May 212 all
oup, sausage and bean, June 169 all
panish Gunk, tortilla filling, Feb 144 all
tew, beef and bean, June 169 all
tew, meatball and garbanzo, June 170 all
trawberries, West Texas, Aug 134 all
wiss steak chile with beans, Mar 194 all
ofu dips, four low-calorie, Dec 146 all
hite bean dip, June 93 all
ith fresh vegetables, June 93 all
occoli, casserole, broccoli-rice, Nov 169 all
bbage
ole slaw salad, chef's, Apr 210 C
ole slaw with kuminost, June 190 N, S, D
rêpe, Polish, Oct 222 all
olls, Charlie's, Sept 142 all
olls, sweet and sour, Oct 198 N, C
alad, sardine vegetable, Mar 204 N
auerkraut, butter-sautéed, Mar 178 N, C
law a la Snow, Feb 144 all
law, apple and cabbage, Oct 192 all
law, fruit and nut, Apr 210 C
aw, Oriental cabbage, May 182 all
aw, overnight, May 202 N
aw, sweet, June 164 all
aw, vegetable, crunchy, Apr 210 C
ir-fry, chard and cabbage, Jan 77 all
rrots
nd kumquats with chicken, May 186 all
ake, Easter, Apr 206 all
ancakes, carrot-potato, Feb 121 all
oup, yam, tomato, carrot, onion, Nov 198 all
egetable medley, marinated, Nov 180 all
egetables, chilled curried, Oct 191 all
ith rice, May 184 all
icchini-carrot slaw, sandwich filling, Aug 117 all
uliflower
egetable medley, marinated, Nov 180 all
egetables, chilled curried, Oct 191 all
lery Root, ramekins, fish, Feb 121 all
ard
uick baked, Aug 110 all
ir-fry, chard and cabbage, Jan 77 all
inese Greens
roadleaf mustard pickles, Mar 169 all
hinese broccoli spears or choy sum, Mar 103 all
eezing, Mar 169 all
rowing, cooking, shopping for, Mar 102 all
oup, Mar 103 all
ir-fried, basic, Mar 102 all
ir-fried, with beef, Mar 103 all
mfrey, serving ideas, May 242 all
rn
ake, Oct 212 all
itters, jumbo, Dec 142 all
ie, South American, Sept 148 all
auté, garden patch, Sept 121 all
eumbers
lish, cucumber-yogurt, Sept 123 all
lad, Hegreberg, Dec 144 all
gplant
aponata alla Allardicci, May 215 all
asserole, eggplant and pasta, Dec 151 N, S, D
chiladas, Oct 190 all
ices, shrimp-topped, Nov 204 all
ack-ups, Oct 236 all
ew, summer-vegetable, July 103 all
ith lamb or beef, May 185 all
arole, salad, escarole and sausage, Mar 184 all
rlic, chicken, garlic celebration, Sept 138 all
mmy, good times, Dec 140 all

Vegetables (contd.)
Jícama
flan, May 216 all
jícama apple crisp, May 216 all
Kohlrabi
and mushrooms, butter-steamed, June 196 all
meat-stuffed, June 194 all
soup, kohlrabi chicken, June 196 all
Lentils
dried, preparation, recipes, June 90 all
pilaf, lentils and leftovers, Nov 202 all
soup, lentil-vegetable, meatballs, Nov 202 all
stew, Mexican, Nov 202 all
with chicken, May 186 all
with Persian rice, May 184 all
with ranch eggs, June 93 all
with spinach, June 93 all
Lettuce
crêpewich, BLT, Oct 222 all
romaine salad, Oriental wilted, Nov 168 all
Mushrooms
and crab with marrow, May 232 all
and kidneys, creamy, Apr 115 N
and kohlrabi, butter-steamed, June 196 all
bowl, chilled, Nov 180 all
carbonara, mushroom-onion, May 190 all
frittata, baked, May 183 all
ham, artichokes, mushrooms, creamy, Apr 206 all
marinated, sandwich filling, Aug 117 all
omelets, asparagus, mushroom sauce, Mar 178 S, D
pancake, oven, mushroom filling, June 178 N; Oct 203 C, S, D
pizzas, deep-dish vegetable-wheat, mushroom, onion filling, Oct 214 all
rarebit, mushroom olive, Apr 115 N
salad, blue cheese-mushroom, June 190 N, S, D
salad, mushroom-orange, Feb 120 all
skewers, fish and mushroom, Sept 134 all
turnovers, flaky, Dec 152 all
Onions
appetizer, shrimp and onion, Sept 140 all
carbonara, mushroom-onion, May 190 all
knishes, potato-onion, Jan 78 all
kulcha, onion, Sept 123 all
pizzas, deep-dish vegetable-wheat, mushroom, onion filling, Oct 214 all
quiche, onion and sprout, Mar 162 all
salad, Hegreberg, Dec 144 all
sauté, garden patch, Sept 121 all
soup, party, Dec 77 all
soup, yam, tomato, carrot, onion, Nov 198 all
Parsley, salad, triticale parsley, Apr 224 all
Parsnips, baked, Shaw, Mar 188 all
Peas
curried peas and cheese, Indian, Feb 126 all
dried, preparation, recipes, June 90 all
ramekins, pasta, with ham, peas, Oct 244 C, S, D
rice with peas and dill, May 184 all
salad, green pea, crunchy, May 202 N
soup, pea and bean, spiced, May 212 all
soup, split pea, hearty, Dec 77 all
whipped, June 93 all
with petite potatoes, June 160 C, S, D; July 113 N
Peppers
bell pepper, sweet, strips, Oct 248 all
chile and tomato salsa, crunchy, Sept 85 all
chile, drying surplus, Sept 125 all
chile, pickled whole, Sept 84 all
chile, preparing for freezer, Sept 85 all
chile sauce, dried, Sept 125 all
chile, seven favorites, chart, Sept 82 all
chiles rellenos, Esther's, Sept 85 all
chiles rellenos, Rosemary's, Oct 212 all
green chile and turkey tumble, Dec 151 C
jalapeño chile beans, Oct 220 all
jalapeño spareribs, Oct 218 all
jalapeño spoonbread, Oct 220 all
jalapeños, pickled, Sept 84 all
Mexi-muffins, muy macho, July 119 all
pancake, oven, chile beef filling, June 178 N; Oct 203 C, S, D
pepper pickles, refrigerator, Sept 84 all
quesadillas, crepe, Oct 222 all

Vegetables (contd.)
Peppers (contd.)
red chile pork tamales, Nov 118 all
red pepper jam, spicy, Oct 248 all
sausages, Italian, green pepper sauce, Sept 132 all
seasoning, hot pepper, Nov 208d all
tomato-chile with fresh coriander, Aug 138 all
Potatoes
knishes, potato-onion, Jan 78 all
new potato nibbles, June 160 C, S, D; July 113 N
new, glazed, June 160 C, S, D; July 113 N
pancake, oven-baked, Apr 236 all
pancakes, carrot-potato, Feb 121 all
pancakes, crispy, Apr 236 all
pancakes, Dec 139 all
peel, baked, July 122 all
petite, with peas, June 160 C, S, D; July 113 N
pyramids, Oct 237 all
salad, chicken and potato, with basil, Mar 89 all
salad, lemon vegetable, July 101 all
salad, sardine vegetable, Mar 204 N
salad, Sonora, July 107 all
soup, potato yogurt, Mar 163 all
with cheese, Colombian, Jan 92b C, S, D; June 173 N
Spinach
and prunes with short ribs, May 186 all
meat loaf, spinach-swirled, Oct 226 all
noodles, May 119 all
pie, cottage cheese and spinach, Oct 206 all
pizzas, deep-dish vegetable-wheat, fresh spinach, sausage filling, Oct 214 all
salad, Oregon spinach, Mar 184 all
salad, vegetable-spinach, Aug 114 all
soufflé, Apr 197 all
stuffing, spinach rice, Nov 174 all
with lentils, June 93 all
Sprouts
quiche, onion and sprout (bean), Mar 162 all
salad, alfalfa sprouts and apple, June 156 all
Squash
bake, curried, July 100 all
crookneck with chives, creamy, Aug 138 all
pumpkin chiffon whipped topping, low-calorie, Oct 240 all
pumpkin patch lamb stew, Oct 224 all
pumpkin soup, creamy, Nov 168 all
vegetable medley, marinated, Nov 180 all
zucchini, artichoke-filled deep-dish vegetable-wheat pizzas, Oct 214 all
zucchini-carrot, sandwich filling, Aug 117 all
zucchini fruitcake, Sept 146 all
zucchini relish, spiced, Aug 111 all
zucchini surprise, Sept 140 all
Sweet Potatoes, yam, tomato, carrot, onion soup, Nov 198 all
Tomatillos
jam, Aug 125 all
leather, Aug 125 all
relish, sweet, Aug 125 all
Tomatoes
chutney, tomato and pear, Sept 152 all
crêpewich, BLT, Oct 222 all
curried egg and shrimp-stuffed, Aug 128 all
macaroni-stuffed, colorful, Aug 128 all
soup, yam, tomato, carrot, onion, Nov 198 all
tomato and chile salsa, crunchy, Sept 85 all
tomato-chile with fresh coriander, Aug 138 all
tomato stacks, tuna-avocado, Aug 128 all
Turnips, vegetables, chilled curried, Oct 191 all
Vegetable burritos, Sept 72 all
Vegetable curry, Sept 73 all
Vegetable-filled Latin picnic pies, May 102 all
Vegetable-spinach salad, Aug 114 all
Vegetable stew with eggs, Sept 73 all
Vegetable-toss pockets, May 206 N, S, D
Vegetables, mixed, Indonesian, Nov 206 all
Vegetables, seasoned, Nov 208d all

Young People's Cooking
Burritos, sausage, Jan 80 all
Pie, peanut banana, Jan 80 all
Supper, young cook's special, Jan 80 all

Gardening and Landscaping

(GG means the item appeared in the Garden Guide section)

Annuals
Annuals to plant over bulbs, Oct 276 S, D
Bedding plants, giving roots good start, May 270 N, C, D, Nov 252 S
Blue, purple flowers planted in fall for spring bloom (GG), Oct 251 C, S, D
Calendula, Kablouna strain, longer-lasting flower form, Aug 167 N, 158 C, 144 S, D
Calendula, Dwarf Fiesta Mix (GG), Oct 251 C, S
Coreopsis (GG), Apr 247 D
Daisy, African, makes springtime carpet (GG), Nov 221 C, S, D
Fall-planted, most popular (GG), Sept 155 S
Gaillardia (GG), Apr 247 D
Geranium, peppermint *(Pelargonium tomentosum)*, Apr 288 all
Growing with less water, July 152 C, 164 S, D
Marigold 'Primrose Lady', 'Yellow Galore', All-America Selections (GG), May 240 D
Marigolds, signet *(Tagetes tenuifolia)*, growing from seed (GG), June 206 C
Mignonette, fragrant blossoms, Apr 266 all
Poppy hybrids, growing from seed, Sept 80 all
Seed collecting in your garden, July 148 N, 149 S, D
Seed collecting in your garden (GG), Oct 251 C
Sweet peas, giving good start (GG), Oct 252 C, S
Verbena 'Springtime', new summer annual (GG), May 240 D
Verbena tenera 'Sand Red' (GG), Oct 252 D
Water-short gardening, guidelines, Apr 126 C
Wildflowers, exotic, growing from seed (GG), Sept 155 C, S, D

Arrangements
Bouquets that stay fresh without water (GG), Dec 173 all
Bridesmaid's bouquet, few blooms, May 264 all
Christmas fruit trees you make, Dec 74 all
Cones, pine, fir, spruce, collecting, Dec 192 N
Flowers, wedding, novices take charge, May 274 all
Flowers, fresh cut, assuring through winter, spring (GG), Nov 223 S
Gourds, preserving (GG), Oct 252 N
Poinsettia flowers, harvesting (GG), Dec 173 N

Book Reviews
Attracting Birds to Your Garden, Sunset book, Dec 195 N, S, D, 192 C
Botanical Prints (GG), Nov 221 C
Butterflies of Southern California (GG), June 205 S
Cacti and Succulents for the Amateur (GG), Apr 247 C, 249 S; June 207 D
Cactus Identifier (GG), Dec 173 D
Clyde Robin seed catalog (GG), Sept 156 C
Desert Tree Finder (GG), Mar 211 D
Directory of American Horticulture (GG), Nov 221 N; Dec 173 C
Drought Gardening (GG), June 206 N
Field Guide to Pacific States Wildflowers (GG), Mar 210 C
Gardening in Containers, a *Sunset* book, Mar 241 N, 243 C, 245 S, D
Hortus Third, Jan 102 all
How to Grow African Violets, a *Sunset* book (GG), May 241 N, D, 240 C, S
How to Grow More Vegetables Than You Ever Thought Possible (GG), June 206 C
How to Grow Orchids, a *Sunset* book, Mar 241 N, 243 C, 245 S, D
Insects of the Los Angeles Basin (GG), June 206 S
Native Trees and Shrubs for Landscape Use in the Desert Southwest (GG), Oct 251 D
Pacific Horticulture, fall (drought) issue (GG), July 137 N, C, S

Book Reviews (contd.)
Palos Verde, Cooperative Extension Service information pamphlet (GG), Nov 222 D
Perennial Garden Plants, or The Modern Florilegium (GG), Feb 159 N, 152 C, S, D
Peter Chan Family Garden Book (GG), Apr 247 N
Recycle for the Birds, National Wildlife Federation booklet (GG), Aug 142a C
Santa Barbara's Trees, Feb 59 S
Seed company catalogs (GG), Dec 174 N, C
South African plant books (GG), Feb 150b S
Terrariums—Mini-Gardens, information sheet (GG), Aug 142a C
Thompson and Morgan seed catalog (GG), Jan 94 N, 93 C
Trees of Santa Monica, Feb 59 S
Trees of the Berkeley Campus (GG), Feb 150a C
Tropical Exotics (GG), Dec 174 S
Tropical Shrubs (GG), Dec 174 S
Water Conservation bulletins, Washington State University (GG), July 138 N
Western Tree Book (GG), June 206 N

Bulbs and Bulblike Plants
Alliums, ornamental, Sept 172 S, D; Nov 228 N, 244 C
Annuals to plant over bulbs, Oct 276 S, D
Begonia Festival, Capitola, Calif. (GG), Sept 156 C
Begonia, hollyhock *(B. martiana)*, Apr 294 all
Bulb sale, University of Washington Arboretum Foundation, Seattle (GG), Aug 144 N
Crocus, planting in lawn (GG), Oct 252 N
Daffodil all-stars for So. Calif., Nov 248 S, D
Daffodil show, Descanso Gardens, La Canada, Calif. (GG), Mar 210 S
Daffodils, number one bulbs for most flowers, Nov 242 all
Daylilies *(Hemerocallis)*, planting, dividing, rooting offsets, Aug 150 all
Fall-planted, most popular (GG), Sept 155 S
Gladiolus 'Sunray', 1977 All-America Selection (GG), Feb 150b D
Gladiolus, new, unusual varieties (GG), Mar 210 N
Hyacinth, Dutch, planting for midwinter indoor bloom (GG), Nov 221 N
Incarvillea delavayi, planting fleshy roots (GG), Feb 152 N
Ipheion, never-fail-to-flower bulbs, Dec 206 S
Lilies, planting in high country gardens (GG), Oct 254 N, C, D
Miniatures for mountain gardens (GG), Oct 254 N, C, D
Native Calif., planting lecture, Los Angeles State and County Arboretum, Arcadia (GG), Oct 252 S
Ornithogalums, white flowers, Sept 168 S, D; Nov 224 N
Peonies, for spring color, Oct 276 N
Shell flower, Mexican *(Tigridia)* (GG), Apr 249 N
Spring bulbs, planting in high-altitude gardens (GG), Sept 158 N, C, D
Spring-flowering bulbs, planning, shopping, planting advice, Oct 114 all
Tuberoses, hot-weather performers (GG), Feb 150b D
Tulips in cans in boxes (GG), Oct 251 N

Cactus
Cacti and Succulents for the Amateur, book review (GG), Apr 247 C, 249 S; June 207 D
Cactus Identifier, book review (GG), Dec 173 D
Cactus show, Papago Park, Phoenix (GG), Feb 150c D

Cactus (contd.)
Cactus-succulent indoor garden basks in window sunlight (GG), Dec 174 N
Cactus, growing indoors in hanging pots (GG), Feb 152 N
Cactus, unusual, undemanding house plants, Jan 50 all
Drought tolerant, fire resistant plants, Mar 240a C, S, D

Container Gardening
Bamboo, golden, planted in barrels to control spread (GG), Feb 150b C
Bamboo, rice paper plant, rushes in heavy-duty planters screen house, Oct 283 S, D
Bellflower, Italian *(Campanula isophylla)*, July 146 all
Christmas tree, living, care after purchasing (GG), Nov 222 N
Christmas trees, living, other varieties worth considering (GG), Dec 173 N
Christmas trees, living, care, selection (GG), Nov 223 C
Coleus *(C. blumei)*, grown as "tree", May 280 C, S, D; Oct 278 N
Color, quick, for deck or patio, Apr 305 S, D
Containers, porous, cutting water loss (GG), Sept 156 C
Daisies, Michaelmas, for late summer color (GG), Sept 156 N
Daisy, Transvaal *(Gerbera jamesonii)*, for summer (GG), July 137 N
Deck garden with gray water, Apr 256 all
Fern, Japanese climbing *(Lygodium japonicum)* (GG), Nov 222 C, S
Fuchsias, standard, grooming, pruning, repotting, Feb 160 C, S, D; Mar 221 N
Garage roof is "beach" and container vegetable garden, May 246 S, D
Gardening in Containers, a *Sunset* book, Mar 241 N, 243 C, 245 S, D
Hanging pots, drip control (GG), Jan 94 N, 93 C
Herbs in containers instead of annuals (GG), July 138 N
Ivy, English, ground cover for container tree (GG), Nov 222 N
Melons, May 260 all
Nursery cans covered up with asbestos-cement pipe couplings, Aug 175 all
Oleander, Aug 142d C
Pines, mugho *(Pinus mugo mughus)*, decorate deck through winter (GG), Apr 248 N
Planter from lightweight volcanic rock, Sept 168 N, 162 S, D
Planters, driftwood, Aug 155 S, D
Rock plants, miniature gardens, Nov 224 C, S, D
Saucers under plants decrease watering frequency (GG), Feb 150b C
Sedum oxypetalum (GG), May 239 C
Sedum, hen and chickens, flowering kale, combination for fall (GG), Sept 155 N
Stairway pots hang on bent rods, July 152 N, S, D
Stone plants, June 225 all
Strawberry tree 'Elfin King' *(Arbutus unedo)*, Jan 105 all
Succulents, planting in driftwood (GG), June 205 N
Summer first aid (GG), June 205 D
Tropical, subtropical potted plants, bringing indoors for winter (GG), Nov 221 D
Tulips in cans in boxes (GG), Oct 251 N
Vegetable garden on patio (GG), May 239 N, 240 C
Vegetable garden, sunny "beach" on garage roof, June 254 N, C
Vines, colorful, growing in hanging baskets (GG), Sept 157 S
Water-saving ideas, advice, June 96 all

ns
on, rare varieties (GG), Feb 150b S
green ferns, hardy, for Pacific Northwest, ov 226 N
wing from spores, July 154 all
nese climbing *(Lygodium japonicum)* G), Nov 222 C, S
denhair, varieties, care, Aug 154 N; ec 178 C, S, D
system on shade structure for ferns (GG), ly 138 S

its and Nuts
le peeler, Sept 177 N, 173 C, 175 S, D
le, espaliered, May 266a C, 268 S, D; ne 227 N
les, characteristic markings, signs of uble, Aug 164 N, 163 S, D
les, controlling codling moths, Apr 280 all
les, dwarf, mulching for heat protection G), June 205 S
les, old, unusual, Oct 260 all
les, spur-type, Jan 96 all
les, varieties for warm-winter areas (GG), b 150b S
cots, varieties for warm-winter areas (GG), b 150b S
cots, varieties for desert areas, Jan 100 D
cados, care in water-short year, Apr 287 C
for trees that are alive but dormant (GG), pt 155 S
rry-plum crosses, Feb 168 C, S, D; ar 224 N
us, budding (GG), Apr 249 S
us, dwarf, portable frost cover for (GG), v 222 D
us, five varieties on one tree (GG), Apr 248 S
s fruit drop (GG), May 241 D
s, growing from seed, Jan 106 S, D
us, planting, Apr 253 D
s shopping guide for desert gardens (GG), y 240 D
yed foliation due to warm winter (GG), b 150a S
rees, growing from cuttings indoors or out, c 190 all
trees, metal sleeve to keep raccoons out of G), Sept 157 N
t trees, new deciduous, Feb 168 C, S, D; ar 224 N
t trees, new, for mild climates, b 168 C, S, D; Mar 224 N
tic dwarfs, Feb 168 C, S, D; Mar 224 N
seberries, varieties, harvesting, pruning, pagating, Nov 250 N
es, best varieties for desert areas (GG), n 93 D
es, protecting from birds, wasps (GG), g 142a D
es, three varieties grow on fence (GG), b 151 N, 150a C, S, D
n'l Association for Education, Develop- nt, and Distribution of Lesser Known Food nts and Trees (GG), Apr 247 S
at *(Eriobotrya japonica)*, indoor tree G), Jan 94 C
ns, container-grown, May 260 all
arines, varieties for warm-winter areas G), Feb 150b S
, harvesting (GG), Oct 252 N
prays for dormant, leafless plants (GG), b 150a S
hes, varieties for warm-winter areas (GG), b 150b S
hes, varieties for desert areas, Jan 100 D
ut farm, pick-your-own, Simi Valley, Calif. G), Sept 156 S
'Seckel', for warm-winter areas (GG), b 150b S
-apple cross '20th Century Pear Apple', b 168 C, S, D; Mar 224 N
-apricot cross 'Plum Parfait', b 168 C, S, D; Mar 224 N
ns, varieties for warm-winter areas (GG), b 150b S

Fruits and Nuts (contd.)
Pruning demonstration, South Coast Botanic Garden, Palos Verdes Peninsula, So. Calif. (GG), Jan 94 S
Strawberries, alpine, 'Alexandria' (GG), Feb 150c D
Strawberries, cage to protect from birds (GG), Sept 157 N
Strawberry-enclosed sitting area, Feb 176 N, 159 S, D
Tree fruits, putting harvest into storage, Sept 164 all
Tropical and subtropical, rare, seed source (GG), Apr 247 S
Vineyard, planting, managing, Oct 273 all

Garden Structures, Greenhouses, Plant Shelters
Atrium in tight sideyard, Apr 276 C, S, D
Cloche, plastic, to speed spring garden, Jan 100 N; Feb 186 C, S, D Aug 154 S, D
Cloche, portable, protects seedlings, Mar 209 C
Compost bin, foundation stake supports (GG), Apr 249 C
Compost bins, underground, June 230 N, C
Compost bins, underground, Oct 270 S, D
Frost cover, portable, for dwarf citrus (GG), Nov 222 D
Greenhouse, decks, walkway in old bare backyard, Oct 176 all
Greenhouse, PVC, May 256 all
Greenhouse, sunken, presents low profile (GG), Apr 274 all
Greenhouse-topped courtyard, Aug 98 all
Greenhouses, solar, Mar 96 all
Joints, plastic, for lightweight construction, May 101 all
Lath shades subtropical plants (GG), Aug 142a C, S, D
Plant conservatory, work center addition to house, Feb 166 N, C
Plastic hood traps heat to prolong growing season, Sept 177 C, 179 S, D
Shade garden growded with good ideas, Aug 154 S, D
Shade structure, cold house meet Nevada climate challenge, Apr 290 N, C
Shade structures conserve energy, water, June 208 all
Shelf-screen makes work center, Mar 249 N, C; May 272 S, D
Shelf, folding, for plant display, May 172 all
Sunroom addition to deck, Feb 174 N; May 270b C, S, D
Work center is bunker of railroad ties, Apr 260 all

Garden Techniques and Maintenance
Apples, dwarf, mulching for heat protection (GG), June 205 S
Asparagus, planting, care (GG), Feb 150a D
Bamboo culms, harvesting, curing, Mar 214 all
Bare-root plants, buy, plant (GG), Jan 94 D
Bean-thrashing made easy (GG), Sept 157 N
Beans, shelling, Mar 234 all
Bedding plants, giving roots good start, May 270 N, C, D; Nov 252 S
Bromeliad offsets, removing, repotting, Sept 172 N, 158b C, S, D
Bulbs, spring, planting in high-altitude gardens (GG), Sept 158 N, C, D
Calendar/diary to record gardening activities (GG), Jan 93 D
Christmas tree, care for fresher (GG), Dec 173 S
Chrysanthemums, how to grow giant blooms, Mar 222 C, S, D
Citrus fruit drop (GG), May 241 D
Citrus, planting, Apr 253 D
Compost bin, foundation stake supports (GG), Apr 249 C

Garden Techniques and Maintenance (contd.)
Compost method, quick, uses little water, Oct 266 N, C
Compost, using and rebuilding pile (GG), Oct 254 N, C, D
Container plants, summer first aid (GG), June 205 D
Cultivating to stretch water (GG), July 137 S
Daylilies, planting, dividing, rooting offsets, Aug 150 all
Drought gardening issue, *Pacific Horticulture* (GG), July 137 N, C, S
Drought Gardening, book review, June 206 N
French Intensive biodynamic gardening (GG), June 206 C
Fruit tree delayed foliation, preventing (GG), Feb 150a S
Gardening system, Mittleider method, Feb 170 N, 150d C, S, D
Garlic, giant or elephant *(Allium scorodoprasum)*, planting (GG), Dec 174 S
Garlic, lodging (GG), Aug 143 N
Gift trees, shrubs, care, Dec 182 all
Gooseberries, harvesting, pruning, Nov 250 N
Gourds, preserving (GG), Oct 252 N
Grass, dead, removing, Oct 258 all
Grasses, creeping, controlling thatch (GG), Aug 142a D
Ground cover care, timing, Apr 290 S, D
Healthy gardens with less water, food (GG), May 241 C
House plant pots, air underneath, Feb 162 all
Hyacinth, Dutch, planting for midwinter indoor bloom (GG), Nov 221 N
Lawns, drought-stricken, determining if alive, care (GG), Nov 221 C
Lawns, high-country, feeding before cold weather (GG), Sept 158 N, C, D
Lawns, winterizing (GG), Oct 253 S
Lilies, planting in high country gardens (GG), Oct 254 N, C, D
Manure tea, Mar 246 N, 248 S, D; Apr 248 D; July 166 C
Manure, elephant, for home gardens, Portland Zoo (GG), Feb 152 N
Nuts, harvesting (GG), Oct 252 N
Oil sprays for dormant, leafless plants (GG), Feb 150a S
Onion seed, catching (GG), Sept 155 N, 156 C
Oriental greens, sowing seed, harvesting, Mar 236 all
Peat moss, presoaking with water, Apr 248 C
Perennials, dividing clumps, cutting to renew plants (GG), Aug 142a D
Plant tags (GG), Feb 150 C, S
Planting winter garden to take advantage of maximum winter sun (GG), Oct 252 C, 251 S
Poinciana *(Caesalpinia pulcherrima)*, cutting back (GG), Dec 174 D
Potatoes, harvesting before soaking rains (GG), Oct 251 N
Pots, biodegradable, for planting slope (GG), Oct 251 N
Rainwater, summer, collecting, July 158 D
Root-pruning trees, shrubs before moving (GG), Mar 210 N
Seed collecting from annuals, July 148 N, 149 S, D; Oct 211 (GG) C
Seedling cylinders, newspaper (GG), Mar 209 N
Seedling protection with portable (GG), Mar 209 C
Seeds, fall, buying and storing (GG), Oct 253 S
Soil, desert, improving (GG), Sept 157 D
Soil, fall care (GG), Nov 221 N
Soils, high-country, improving in fall, Sept 158 N, C, D
Stickery bushes, gardening or painting behind (GG), June 207 N
Tomatoes, pruning off new growth late in season (GG), Aug 143 N
Tomatoes, speeding ripening before frost (GG), Sept 156 N
Tree cavities, methods dealing with, Aug 148 all
Trees, intensifying fall color (GG), Oct 252 S
Trees, pruning prevent wind damage (GG), Nov 221 D

Garden Techniques and Maintenance (contd.)
Vegetable flowers, pollinating (GG), May 240 D
Vegetables, harvesting, desert areas, June 234 D
Water conservation bulletins, Washington State University (GG), July 138 N
Weeds, control in new gardens (GG), Mar 210 C

Ground Covers
(See Lawns, Ground Covers)

Herbs
Comfrey, growing, uses, May 242 all
Comfrey, making sure it is genuine (GG), Aug 143 N
Herbs in containers instead of annuals (GG), July 138 N
Mints, Feb 150c C; Mar 210 D
Teas, herbal, Apr 262 all
Wreaths; herbs, peppers, gift for cook, Dec 194 C

House Plants
Air layer woody-stemmed house plants, Jan 106 N
Brick platform protects floor from water spills, Nov 248 C
Bromeliad offsets, removing, repotting, Sept 172n, 158b C, S, D
Cactus-succulent garden basks in window sunlight (GG), Dec 174 N
Cactus, growing in hanging pots (GG), Feb 152 N
Cactus, unusual, undemanding, Jan 50 all
Caudiciforms, May 282 N; Nov 228 S, D
Citrus, growing from seed, Jan 106 S, D
Coffee plant *(Coffea arabica)*, Apr 268 all
Coleus *(C. blumei)*, grown as "tree", May 280 C, S, D; Oct 278 N
Containers, getting air underneath, Feb 162 all
Dieffenbachias, rooting (GG), Mar 209 C
Dieffenbachias, short, compact varieties (GG), Jan 93 C, S
Earth stars *(Cryptanthus)*, offsets, removing, repotting, Sept 173 N, 158d C, S, D
Fern, Japanese climbing *(Lygodium japonicum)* (GG), Nov 222 C, S
Ferns, maidenhair, Aug 154 N; Dec 178 C, S, D
Fig trees, growing from cuttings indoors or out, Dec 190 all
Gynura aurantiaca 'Purple Passion', Nov 240 all
Hanging pots, drip control (GG), Jan 94 N, 93 C
How to Grow African Violets, ■ *Sunset* book (GG), May 241 N, D, 240 C, S
Hyacinth, Dutch, planting for midwinter indoor bloom (GG), Nov 221 N
Ivy balls, hanging, Nov 226 C, S, D
Ivy, oak-leaf *(Cissus rhombifolia* 'Ellen Danika') July 144 all
Jungle room in Puget Sound home, Sept 174 N
Lipstick plants and look-alikes (GG), Feb 150b C
Loquat *(Eriobotrya japonica)*, Jan 94 C
Mahonia lomariifolia (GG), Nov 221 N
Orchid, *Phalaenopsis*, growing in air-conditioned house (GG), June 205 D
Palms, new, helping adjust to surroundings (GG), Jan 93 N
Philodendron selloum, sprawling plant (GG), Nov 223 N
Philodendron, split-leaf *(Monstera deliciosa)*, edible fruit (GG), Aug 142b C
Philodendron, split-leaf *(Monstera deliciosa)*, ladder support, Jan 111 N, 109 C, 108 S, D
Plant gifts, instant, cuttings in water, pebbles, Dec 176 all
Plant stand, grapestake, Apr 188 C, S, D
Reel-out cord for hanging plants for sunning, grooming, watering (GG), Dec 174 C
Royal purple velvet plant *(Gynura aurantiaca)*, Nov 240 all

House Plants (contd.)
Spanish bayonet *(Yucca aloifolia)* (GG), Feb 151 N
Spanish dagger *(Yucca gloriosa)*, Feb 172 N
Terrariums—mini-gardens, information sheet (GG), Aug 142a C
Velvet vine *(Mikania ternata)*, Nov 240 all
Yuccas, propagating outdoor plants for indoors (GG), Feb 151 N

Landscaping
Arizona-Sonora Desert Museum-*Sunset Magazine* Demonstration Desert Garden Tucson Mountain Park, Mar 256 all
Blue, purple flowers planted in fall for spring bloom (GG), Oct 251 C, S, D
Color, autumn, shrubs for (GG), Oct 252 N
Color, fall, shopping for trees (GG), Nov 221 S
Color, fall, trees for desert areas to plant bare-root (GG), Jan 93 D
Color, January, deciduous trees, shrubs (GG), Jan 93 C
Color, quick, for deck or patio, Apr 305 S, D
Concrete blocks planted with grass for paving, Aug 146 S, D; June 228 N, C
Deck garden makes it with gray water, Apr 256 all
Decks added over changing levels make garden grow, Nov 234 all
Desert gardens use rocks in landscaping, Oct 268 all
Desert gardens, making most of natural desert (GG), July 137 D
Driveway edging, century plants, utilty poles, June 243 S, D
Drought tolerant, fire resistant plants, Mar 240a C, S, D
Entry garden, downhill, was driveway, June 236 N
Entry garden, downhill, uses steps, landings, Dec 201 S, D
Fence ordinance, Eugene, Ore. (GG), Feb 151 N
Garage roof is "beach" and container vegetable garden, May 246 S, D; June 254 N, C
Garden built atop existing parking bridge, Nov 248 N, 244 S, D
Garden designed to keep out animals (GG), Apr 248 S
Garden remodel for cash cost of $613, Apr 181 N; July 84d C
Garden walks, bridges of planks, June 108a C, S, D
Gray-foliaged plants, May 255 C, S, D
Green patio jungle from scratch in 18 months, Mar 221 C, S, D
Greenhouse, decks, walkway in old bare backyard, Oct 176 all
Ground covers for desert sun (GG), Mar 210 D
High school campus planted with 2,000 trees, shrubs, Davis, Calif., Apr 285 N
Hillside garden of perennials, rock garden plants in Los Angeles, Mar 90 all
Idea displays, So. Calif. innovative nurseries, Sherman Foundation Garden, Feb 72 all
Lawn edging, concrete, fits into retaining wall of utility pole rounds (GG), Nov 222 N
Lawn replacements, five unthirsty options, Sept 190 all
Lawn substitutes, minimum-care ground covers (GG), Feb 150a D
Lawns, dead, interim choices, June 226a C, S, D
Mound planting edits the view, Apr 276 N, 278 D
Mound-step in place of steps (GG), Apr 248 N
Mounds, plant selections make space look larger, Sept 155 N
Mountain meadow effect in six-year-old garden, Feb 172 S, D
Palm-lover's garden, San Diego, Aug 154 C
Patio, wood-floored, has removable boards to plant around tree (GG), Mar 211 C
Paving cracks, stuffing with flowers, Oct 256 N, C, S; Nov 252 D
Railroad ties, landscaping with, Feb 66 all
Redesigned garden on sloping lot is landscaped on levels, May 302 all

Landscaping (contd.)
Relandscaping projects, using slide projector to help plan, Aug 144 C
Remodeled garden, decks, steps, walks transform blocky house, June 100 all
Rock ground cover as cover-up, Aug 156 all
Rock wall is color tapestry (GG), June 205 all
Rock, colorful, unthirsty ground cover, Aug 70 all
Roof garden, easy-care, San Francisco, Sept 86 all
Sculptor's garden contains spaces for different uses, July 150 C
Shade garden is crowded with ideas, Aug 154 S, D
Sitting area, strawberry-enclosed, Feb 176 N, 159 S, D
Slide projector helps plan garden, Nov 236 N, S, D
Slope planting using biodegradable pots (GG), Oct 251 N
Small back garden with deck, pond, done on budget, July 148 C
Small back lot garden landscaped on budget, Aug 158 N
Small garden mixes vegetables, flowers, evergreens, paving, July 72 all
Small outdoor living areas in award-winning subdivision, Oct 112 all
Stages in the garden, four ideas, Sept 78 all
Streetside garden created from wasted space, Apr 296 N
Subtropical garden, Huntington Botanical Gardens, San Marino, Calif. (GG), Nov 221 S
Succulents, common choices for landscape use, Nov 238 all
Sunset's 1976 garden contest, sampler of winners, Apr 112 all
Trees, clean, drought-tolerant, smallish, for desert gardens (GG), Nov 221 D
Unthirsty plants, 15 winners, Nov 96 C, S, D
Vegetables replace flower garden (GG), July 137 N
Water-frugal garden, almost no irrigation for 25 years, July 76 all
Water-saving demonstration gardens, No. Calif., May 266d C
White-flowering plants, wood, rocks grace side entry, May 285 N, 283 S, D

Lawns, Ground Covers
Arctostaphylos edmundsii 'Carmel Sur', ground cover manzanita, Nov 229 C
Baccharis pilularis 'Twin Peaks', near perfect ground cover (GG), May 239 D
Bermuda grass, care for good-looking lawn (GG), Apr 249 D
Chamomile, English *(Anthemis nobilis)*, aromatic ground cover, Apr 282 N, C, 296 S, D
Concrete blocks planted with grass for paving, June 228 N, C; Aug 146 S, D
Coyote brush, dwarf *(Baccharis pilularis)* and *Dudleya caespitosa*, drought-resistant planting combination, Apr 264 all
Daisy, African, annual springtime carpet (GG), Nov 221 C, S, D
Daisy, Mexican *(Erigeron karvinskianus)*, flower-covered trailing stems, Sept 179 N
Fence-to-fence 365-day garden, Apr 303 S, D
Fescue, blue *(Festuca ovina* 'Glauca'), gray foliage, May 255 C, S, D
Fescue, tall, tough grass, Mar 210 S
Grass, dead, removing, Oct 258 all
Grasses, Bermuda and St. Augustine, controlling thatch (GG), Aug 142a D
Grasses, drought-tolerant, Oct 258 all
Ground cover care, timing, Apr 290 S, D
Ground covers, drought tolerant, fire resistant, Mar 240a C, S, D
Ivy, English, ground cover for container tree (GG), Nov 222 N
Karoo ground cover *(Pentzia incana)*, new from South Africa (GG), Oct 253 D
Lavender cotton *(Santolina chamaecyparissus)*, for full sun (GG), Mar 210 D

ns, Ground Covers (contd.)
irrigation, subsurface systems, Nov 106 all
mower, floating (GG), Sept 156 C
replacements, five unthirsty options, t 190 all
substitutes, minimum-care ground ers, Feb 150a D
water consumption (GG), May 239 S
watering, efficient (GG), May 239 S
watering, making as effective as possible i), Apr 247 C
s, dead, interim choices, June 226a C, S, D
s, drought-stricken, determining if alive, (GG), Nov 221 C
s, full-scale renovation (GG), Sept 155 C
s, high-country, feeding before cold ther (GG), Sept 158 N, C, D
s, winterizing (GG), Oct 253 S
rivialis, substitute grass for winter cover i), Oct 251 D
atilla verna, tub cover (GG), Oct 252 C
mary, dwarf *(Rosmarinus officinalis stratus')*, for full sun (GG), Mar 210 D
berry root weevil, control (GG), ; 144 N
block lawn to drive on (GG), June 206 S
lower show, Calif., Ariz. deserts (GG), r 209 D

cellaneous
dryers, home-built, ideas for uses from dener-cooks, Aug 142d S, D
n events, announcements in *Sunset,* 249 N, C
en groups in New Mexico, Dec 206 D
r Gardens and Arboretum, near Romsey, land, July 156 N
s Third, book review, Jan 102 all
on's Syon Park, gardens, aviary, arium, June 214 all
cotyledons, dicotyledons, learning basic racteristics, May 250 all
es, uses for different (GG), Sept 156 S
& Tilford Gardens, Vancouver, B.C., 150 N
irewood, bark beetle infested, using (GG), 254 N, C, D
s from abroad, bringing home, Apr 258 all
urri, floral-spice, Sept 162 N, C, 158 S
y Mountain states, welcome to *Sunset's* tory, Apr 316 all
crow contest, children's, Chico, Calif., 220 N
t's 1976 garden contest, sampler of win-, Apr 112 all
t's 1977 garden contest, how to enter, 210 D; Apr 113 all; May 244 all; e 207 (GG) N, D; July 138 C
pson and Morgan seed catalog (GG), 94 N, 93 C

ves
staphylos edmundsii 'Carmel Sur', ground er manzanita, Nov 229 C
staphylos manzanita 'Dr. Hurd', largest zanita, Nov 229 C
na Native Plant Society, Apr 117 D
na Native Plant Society (GG), Sept 156 D
na's botanical gardens, plant sales, 278 N, C, S, 114 D
-bush *(Encelia farinosa),* gray foliage), Mar 211 D
, Calif., planting lecture, Los Angeles e and County Arboretum, Arcadia (GG), 252 S
rnia Native Plant Society sales, Oakland, ta Rosa, Calif. (GG), Oct 253 C
rnia Native Plant Society (GG), 156 D
Robin seed catalog (GG), Sept 156 C
t Tree Finder, book review (GG), 211 D
t trees, shrubs, blooms (GG), May 239 D

Natives (contd.)
Ferns, desert, Arizona State Fair display (GG), Oct 251 D
Field Guide to Pacific States Wildflowers, A, book review (GG), Mar 210 C
Hillside desert plants near new homes, making sure they get water (GG), Nov 221 D
Horsetail, wild *(Equisetum hyemale),* planting in garden (GG), Jan 93 N
Kinnikinnick *(Arctostaphylos uva-ursi),* ground cover, Nov 236 C
Manzanita *(Arctostaphylos densiflora* 'Howard McMinn'), raised bed plant, Nov 236 C
Manzanita *(Arctostaphylos densiflora* 'Sentinel'), espaliered, Nov 236 C
Maple, bigleaf *(Acer macrophyllum),* nation's largest tree (GG), June 207 N
Native plant nurseries, So. Calif. (GG), Sept 156 S
Native Plant Society of New Mexico (GG), Sept 156 D
Native Trees and Shrubs for Landscape Use in the Desert Southwest, book review (GG), Oct 251 D
Palos Verde Cooperative Extension Service information pamphlet (GG), Nov 222 D
Pines, Monterey, affected by mites (GG), June 205 S
Rhododendron macrophyllum (GG), Apr 247 N
Ruellia peninsularis, bright green shrub (GG), Oct 253 D
Trees, state, planting in your garden (GG), Apr 247 N
Walnut, Arizona *(Juglans major),* tough colorful tree (GG), Dec 174 D
Western Tree Book, book review (GG), June 206 N
Wildflowers, native, growing from seed (GG), Sept 155 C, S, D
Woolly blue curls *(Trichostema lanatum),* starting from seed, Aug 167 S, D
Yellow bells, Arizona or New Mexico *(Tecoma stans angustata),* long-blooming shrub (GG), Sept 155 D

Paving
Brick carrier, Oct 264 all
Concrete blocks planted with grass for paving, Aug 146 S, D; June 228 N, C
Concrete pump saves your back, Mar 154 all
Crazy-quilt paving using worn, broken bricks, May 246 N, C; Aug 158 S, D
Eucalyptus rounds make economical paving (GG), May 239 S
Garden walk is wood blocks, June 120 S, D; Sept 119 C
Garden walks, bridges of planks, June 108a C, S, D
Paving cracks, stuffing with flowers, Oct 256 N, C, S; Nov 252 D
Paving, path details from Mexico, Oct 178 all
Rock ground cover as cover-up, Aug 156 all
Rock, colorful, unthirsty ground cover, Aug 70 all
Turf-blocks make lawn to drive on (GG), June 206 S

Perennials
Asparagus, ornamental, propagating from seed, June 210 all
Asters, dwarf, color until frost (GG), Sept 158 N, C, D
Basket-of-gold *(Alyssum saxatile),* planting seedlings, Sept 174 C; Oct 279 S, D
Bellflower *(Campanula),* planting seedlings, Sept 174 C; Oct 279 S, D
Bellflower, Italian *(Campanula isophylla),* July 146 all
Blue, purple flowers planted in fall for spring bloom (GG), Oct 251 C, S, D
Carnations, growing from seed, Mar 218 all
Chrysanthemum wall, Mar 223 C, S, D
Chrysanthemums, how to grow giant blooms, Mar 222 C, S, D

Perennials (contd.)
Chrysanthemums, making cuttings (GG), Feb 150b D
Columbine *(Aquilegia),* planting seedlings, Sept 174 C; Oct 279 S, D
Coreopsis *(C. grandiflora),* planting seedlings, Sept 174 C
Cushion bush *(Calocephalus brownii),* gray foliage, May 255 C, S, D
Daisies, daisylike plants for desert areas (GG), Apr 247 D
Daisies, Gloriosa *(Rudbeckia),* big, colorful flowers (GG), June 206 S
Daisies, Michaelmas, for beds or pots for late summer color (GG), Sept 156 N
Daisies, Shasta *(Chrysanthemum maximum)* (GG), Apr 247 D
Daisy, Mexican *(Erigeron karvinskianus),* flower-covered trailing stems, Sept 179 N
Daisy, Shasta *(Chrysanthemum maximum),* planting seedlings, Sept 174 C; Oct 279 S, D
Daisy, Transvaal *(Gerbera jamesonii),* summer container plant (GG), July 137 N
Delphinium, planting seedlings, Sept 174 C
Dividing clumps, cutting to renew plants (GG), Aug 142a D
Dusty miller *(Senecio cineraria),* gray foliage, May 255 C, S, D
Euphorbia biglandulosa, for desert-style landscaping, May 266d S, D
Euryops pectinatus (GG), Apr 247 D
Fall-planted, most popular (GG), Sept 155 S
Foxglove, common *(Digitalis purpurea),* planting seedlings, Sept 174 C; Oct 279 S, D
Gamolepis chrysanthemoides (GG), Apr 247 D
Geranium, peppermint *(Pelargonium tomentosum),* Apr 288 all
Globe thistle *(Echinops exaltatus),* unthirsty plant, Apr 270 all
Goldenrod *(Solidago),* color until frost (GG), Sept 158 N, C, D
Gonospermum canariense, gray foliage, May 255 C, S, D
Grasstree, Australian *(Xanthorrhea quadrangulata),* July 156 S, D
Grasstree, Mexican *(Nolina longifolia),* July 156 S, D
Hillside garden of perennials, rock garden plants in Los Angeles, Mar 90 all
Horsetail, wild *(Equisetum hyemale),* planting in garden (GG), Jan 93 N
Marguerite, blue *(Felicia amelloides),* planting seedlings, Sept 174 C; Oct 279 S, D
Marguerites, blue *(Felicia amelloides)* (GG), Apr 247 D
Marguerites, new forms (GG), Apr 247 all
Penstemon, garden *(P. gloxinioides),* planting seedlings, Sept 174 C; Oct 297 S, D
Penstemons, showy bloom with little water, (GG), Nov 223 C
Perennial Garden Plants, or the Modern Florilegium, book review, Feb 159 N, 152 C, S, D
Phlox, moss pink, moss, or creeping *(P. subulata)* (GG), Feb 150b D
Pinks, laced, *(Dianthus),* growing from seed, cutting, June 238 N
Planting seedlings, Oct 279 S, D
Primrose, Mexican evening *(Oenothera speciosa childsii),* invasive carpet (GG), May 241 D
Rock wall is color tapestry (GG), June 205 all
Seedlings, fall planting, Sept 174 C
Shopping search for perennials, rock plants, Mar 226 all
Yuccas, propagating outdoor plants for indoors (GG), Feb 151 N

Pests, Diseases, Beneficial Insects
Apple scab, water core, Aug 164 N, 163 S, D
Bud rot, rain-caused palm disease (GG), Aug 142a D

Pests, Diseases, Beneficial Insects (contd.)

Butterflies of Southern California, The book review, June 205 S
Camellia petal blight, Nov 231 all
Codling moths, controlling, Apr 280 all
Corn earworm, July 160 S, D
Curly top virus, controlling leafhoppers (GG), June 205 C
Cutworms, protecting tomatoes from with foil sleeve (GG), June 205 N
Dutch elm disease, protecting healthy trees from (GG), Sept 156 C
Fascinating insect world in your garden, May 112 all
Geranium budworm, July 160 S, D
Gypsy moth (GG), Mar 210 C
Hens moved around garden in portable cage to control pests (GG), Mar 210 S
Insects, guides for watchers, May 291 all
Insects of the Los Angeles Basin, The book review (GG), June 206 S
Iron chlorosis, correcting (GG), Apr 249 D
Mites affecting pines (GG), June 205 S
Oil sprays for dormant, leafless plants (GG), Feb 150a S
Pesticide task force, Sierra Club, slide show (GG), July 137 C
Pine firewood, bark beetle infested, using, Oct 254 N, C, D
Rove beetle, snail predator (GG), May 240 S
Spider mites on cut-your-own Christmas trees (GG), Dec 173 C, S
Strawberry root weevil, new control, Aug 144 N
Union Bay Research and Teaching Arboretum preview, Bellevue, Wash. (GG), Oct 252 N
Whiteflies, Aug 78 all
Whiteflies, caution on soapy water spray, Sept 179 N, S, D, 177 C

Propagation

Asparagus, ornamental, propagating from seed, June 210 all
Beans, planning ahead for planting (GG), Mar 208 N, 209 C, S, D
Bromeliad offsets, removing, repotting, Sept 172 N, 158b C, S, D
Camellias, growing from seed (GG), Aug 142b C
Carnations, growing from seed, Mar 218 all
Celery root, planting seed, Feb 178 N
Chrysanthemums, making cuttings (GG), Feb 150b D
Citrus, budding (GG), Apr 249 S
Citrus, growing from seed, Jan 106 S, D
Cloche, plastic, to speed spring garden, Jan 100 N; Feb 186 C, S, D
Daisy, African, annual springtime carpet (GG), Nov 221 C, S, D
Daylilies, rooting offsets, Aug 150 all
Dieffenbachias, rooting (GG), Mar 209 C
Earth stars *(Cryptanthus)*, offsets, removing, repotting, Sept 173 N, 158d C, S, D
Ferns, growing from spores, July 154 all
F^1 hybrids, planting seeds for vigorous plants (GG), Apr 248 C
Fig trees, growing from cuttings indoors or out, Dec 190 all
Flowers, fresh cut, planting for winter, spring bloom (GG), Nov 223 S
Gooseberries, propagating new plants, Nov 250 N
House plants, woody-stemmed, air layering, Jan 106 N
Mahonia, growing from cuttings, June 222 N
Onions, starting from plants (GG), Apr 248 C
Oriental greens, sowing seed, harvesting, Mar 236 all
Palm, windmill *(Trachyscarpus fortunei)*, growing from seed (GG), Oct 251 N
Pinks, laced *(Dianthus)*, growing from seed, cutting, June 238 N
Seed boat makes planting easy, Feb 186 N
Seedling cylinders, newspaper (GG), Mar 209 N
Spanish dagger *(Yucca gloriosa)*, cuttings from new shoots, Feb 172 N
Sprout mix, sprouting your own, Feb 156 all

Propagation (contd.)

Starter flat for early vegetables (GG), Jan 93 C; Mar 238 N
Sweet peas, giving seed good start (GG), Oct 252 C, S
Vegetables, fall planting and the drought (GG), Sept 155 C
Wildflowers, exotic, growing from seed (GG), Sept 155 C, S, D
Woolly blue curls *(Trichostema lanatum)*, starting from seed, Aug 167 S, D
Yuccas, propagating outdoor plants for indoors (GG), Feb 151 N

Pruning

Apples, spur-type, Jan 97 all
Fruit, demonstration, South Coast Botanic Garden, Palos Verdes Peninsula, So. Calif. (GG), Jan 94 S
Fuchsias, standard, Feb 160 C, S, D; Mar 221 N
Photinia, removing strong center shoot (GG), Mar 211 N

Regional Gardens

—Desert

Arizona Native Plant Society, Apr 117 D
Arizona Native Plant Society (GG), Sept 156 D
Arizona-Sonora Desert Museum, near Tucson, plant sale, Apr 278 N, C, S, 118 D
Arizona-Sonora Desert Museum-*Sunset* Demonstration Desert Garden, Tucson Mountain Park, Mar 256 all
Boyce Thompson Southwestern Arboretum, Superior, Ariz. area, Apr 88 all
Boyce Thompson Southwestern Arboretum, Superior, Ariz. area, plant sale, April 114 D, 278 N, C, S
Cactus show, Papago Park, Phoenix (GG), Feb 150c D
Desert Botanical Garden, Phoenix, plant sale, Apr 278 N, C, S, 116 D
Desert garden societies, Feb 170 D
Garden groups in New Mexico, Dec 206 D
Instant info, Cooperative Extension Service, University of Arizona, Tucson (GG), Oct 252 D
Invitation to enter *Sunset's* garden contest, share gardening ideas, May 240 D
Landscaping to make most of natural desert (GG), July 137 D
Native Plant Society of New Mexico (GG), Sept 156 D
Native trees, shrubs, spectacular blooms (GG), May 239 D
New Mexico garden climates, *Sunset Western Garden Book*, Oct 256 D
New Mexico gardens and events, publishing in *Sunset* (GG), Apr 249 D
Palms for So. Ariz., Calif. low-desert areas (GG), June 206 D
Plant sales, Apr 278 N, C, S, 114 D
Trees to plant bare-root for fall color (GG), Jan 93 D
Trees, mature specimens, Civic Center, Phoenix (GG), Nov 222 D
Tucson desert gardens use rocks in landscaping, Oct 268 all
Vegetable garden, year-around, Mar 224 D
Vines for desert areas (GG), June 207 D
Wildflower show, Calif., Ariz. deserts (GG), Mar 209 D

—Hawaiian

Tropical Exotics, book review (GG), Dec 174 S
Tropical plant nurseries, Hilo, Aug 44 N, C
Tropical Shrubs, book review (GG), Dec 174 S

—Intermountain

Denver Botanic Gardens, Sept 192 all
Mountain gardening information in *Sunset*, Sept 192 all
New Mexico garden climates, *Sunset Western Garden Book*, Oct 256 D
Shade structure, cold house meet Nevada climate challenge, Apr 290 N, C

Regional Gardens (contd.)

—Northern California

Botanic garden, Frontier Village, San Jose (GG), 206 C
California Native Plant Society sales, Oakland, Santa Rosa (GG), Oct 253 C
California Native Plant Society (GG), Sept 156 D
Camellia shows, Feb 170 C, S
Capitola National Begonia Festival, Sept 156 C
Garden shows at California fairs, July 156 C
Henry Evans' botanical print exhibit, California Academy of Sciences, San Francisco (GG), Nov 221 C
Roof garden, easy-care, San Francisco, Sept 86 all
Saratoga Horticultural Foundation, Saratoga, 25th anniversary, Nov 228 C
Trees of the Berkeley Campus, book review (GG), Feb 150a C
Water-saving demonstration gardens, May 266d C
World of plants and crafts, Cow Palace, San Francisico (GG), Feb 150c C

—Northwest

Environmental Learning Center, Clackamas Community College, near Oregon City, Ore., Sept 170 N
Jungle room in Puget Sound home, Sept 174 N
Living Christmas tree display, Hansen Baking Company, Seattle (GG), Dec 173 N
Northwest Orchid Society show, Seattle (GG), Jan 94 N
Northwest Ornamental Horticultural Society plant sale, Bellevue, Wash. (GG), Oct 252 N
Peter Chan Family Garden Book, book review (GG), Apr 247 N
Rose shows, Pacific Northwest, June 219 N
Tomato-growing experiments, Western Washington Research and Experiment Station, Puyallup, Wash., May 280 N
Union Bay Research and Teaching Arboretum preview, Bellevue, Wash. (GG), Oct 252 N

—Southern California

Botanic garden, University of California, Riverside, June 241 S, D
California Native Plant Society (GG), Sept 156 D
Camellia shows, Feb 170 C, S
Daffodil show, Descanso Gardens, La Canada (GG), Mar 210 S
Exotic botanical collection, San Diego Zoo, June 220 C, S, D
Fiesta de Flores, South Coast Botanic Garden, Palos Verdes Peninsula, May 266 S, D
Garden shows at California fairs, July 156 C
Green thumb show, San Diego's Wild Animal Park (GG), Aug 142a S
Hillside garden of perennials, rock garden plants in Los Angeles, Mar 90 all
Ivy show, Los Angeles State and County Arboretum, Arcadia (GG), June 207 S
Los Angeles State and County Arboretum, Arcadia (GG), Apr 247 S
Los Angeles State and County Arboretum, Arcadia, plant sale (GG), Apr 247 S
Orange County's innovative nurseries, Sherman Foundation Garden, idea displays, Feb 72 all
Orcutt Ranch Horticultural Center, Canoga Park, May 38a S, D
Palm-lover's garden, San Diego, Aug 154 C
Quail Botanical Gardens, San Diego County, Apr 286 N, S, D; July 142 C
South Coast Botanic Garden, Palos Verdes Peninsula, tour and lunch (GG), Oct 253 S
Spring Extravaganza, Los Angeles State and County Arboretum, Arcadia, May 266 S, D
Subtropical garden, Huntington Botanical Gardens, San Marino (GG), Nov 221 S
Tom Williams' u-pick'm peanut farm, Simi Valley (GG), Sept 156 S
Water situation, 1977 (GG), Mar 209 S

tail Plant Sources

ums, ornamental, Sept 172 S, D
uals to plant over bulbs, seed, ct 276 S, D
ple trees, grafting stock, old, unusual, ct 262 all
zona's botanical gardens, plant sales, pr 278 N, C, S, 114 D
ns, heirloom, non-profit source (GG), ay 239 C
onia, hollyhock *(B. martiana)*, pr 294 all
sale, University of Washington Arretum Foundation, Seattle, Aug 144 N
tus, succulent specialty nurseries, n 53 all
endula, Kablouna strain, seed sources, ug 167 N, 158 C, 144 S, D
endula, Dwarf Fiesta Mix, seed (GG), ct 251 C, S
nellia, Higo, Nov 230 all
diciforms, May 282 N; Nov 228 S, D
le pepper seeds, 25 hard-to-find (GG), ar 210 D
nfrey, May 242 all
lily specialists, Aug 150 all
n spores, July 154 all
ns, Boston, rare varieties (GG), eb 150b S
x, yellow *(Reinwardtia indica)* (GG), n 93 S
it, vegetable seed, rare tropical and subopical (GG), Apr 247 S
sstrees, Australian, Mexican, ly 156 S, D
ma seed, Apr 250d C, S, D
nonette seed, Apr 266 all
ts (GG), Feb 150c C; Mar 210 D
ive plant nurseries, So. Calif. (GG), pt 156 S
ive seed catalog, Clyde Robin, pt 156 C
ental greens, seeds, Mar 236 all
ms, windmill, home-grown from seed GG), Jan 93 N
ny bare roots, Oct 277 N
ennials, rock garden plants, rare, ar 226 all
us eldarica, P. brutia eldarica (GG), ct 254 S
nt sale, Northwest Ornamental Horticulral Society, Bellevue, Wash. (GG), ct 252 N
corn seed, Apr 108 all
py hybrids, seed, Sept 80 all
lum oxypetalum (GG), May 239 C
d company catalogs (GG), Dec 174 N, C
ash, melon, seeds (GG), Feb 150a C; ar 209 N; Apr 247 S
awberries, alpine, 'Alexandria' (GG), eb 150c D
mpson and Morgan seed catalog (GG), n 94 N, 93 C
nato, IPB, seed (GG), Dec 173 N
pical and subtropical, rare, seed source GG), Apr 247 S
pical plant nurseries, Hilo, Hawaii, ug 44 N, C
dflowers, exotic, seed (GG), pt 155 C, S, D
olly blue curls *(Trichostema lanatum)*, ed, Aug 167 S, D

rubs

nboo as lumber for garden uses, ar 212 all
nboo, golden, planted in barrels to conol spread (GG), Feb 150b C
nboo, rice paper plant, rushes in heavyity planters screen neighbor's house, ct 283 S, D
e-root plants, buying, planting (GG), n 94 D
quets that stay fresh without water G), Dec 173 all

Shrubs (contd.)

Brunfelsia calycina 'Macrantha', for shady spot (GG), Mar 211 S
Camellia, Higo, Nov 230 all
Camellia japonica 'Guilio Nuccio', hardy plant with large, ruffly flowers (GG), Apr 248 N
Camellia petal blight, Nov 231 all
Camellia reticulata, large blooms, Mar 232 N
Camellia, Sasanqua, *C. hiemalis*, Nov 231 all
Camellia seed pods (GG), Aug 142b C
Camellia shows, Calif., Feb 170 C, S
Camellias, drought resistance, Nov 230 all
Ceanothus 'Owlswood Blue', Nov 229 C
Coffeeberry *(Rhamnus californica* 'Eve Case'), improved form, Nov 229 C
Color, autumn, Oct 252 N
Coyote brush, dwarf *(Baccharis pilularis* 'Pigeon Point'), Nov 229 C
Dodonaea viscosa makes dense privacy screen, Oct 270 C, 266 S, D
Drought tolerant, fire resistant plants, Mar 240a C, S, D
Flax, yellow *(Reinwardtia indica)*, January bloom (GG), Jan 93 S
Forsythia, January bloom (GG), Jan 93 C
Fuchsias, standard, grooming, pruning, repotting, Feb 160 C, S, D; Mar 221 N
Gift plants, care, Dec 182 all
Grevillea tridentifera, ground-hugging plant, Nov 229 C
Hebe, drought tolerance, Oct 251 S; Nov 222 C
Hollies, best for desert gardens (GG), Dec 173 D
Hollies, new, Dec 202 N, 198 C, S, D
Holly, dwarf Chinese *(Ilex cornuta* 'Rotunda'), for borders, walks (GG), Oct 252 N
Honeysuckle, desert *(Justicia spicigera)*, incorrect botanical names (GG), Dec 173 D
Hydrangeas, Pee Gee, July 160 N
Mahonia 'Arthur Menzies', spectacular new hybrid, June 222 N
Mahonia lomariifolia, good indoor plant (GG), Nov 221 N
Myoporum laetum hedge bare-pruned on one side, Oct 282 C
Oleanders, grown as trees, hedges, screens, container plants, Aug 142d C
Olive, Russian *(Elaeagnus angustifolia)*, hardy shrub-tree, Oct 270d D
Peony, tree, May 266 N
Photinia villosa, P. parvifolia, autumn color (GG), Oct 251 N
Photinia, removing strong center shoot (GG), Mar 211 N
Pines, mugho *(Pinus mugo mughus)*, decorate deck through winter (GG), Apr 248 N
Poinciana *(Caesalpinia pulcherrima)*, cutting back (GG), Dec 174 D
Poinsettia flowers, harvesting (GG), Dec 173 N
Quince, flowering, January bloom (GG), Jan 93 C
Rhododendron 'Pink Pearl', 'Cynthia', old plantings, Portland, Apr 250 N
Rhododendrons, early-blooming (GG), Jan 93 N
Rhododendrons, making cuttings for Christmas gifts, Aug 160 N
Rock wall is color tapestry (GG), June 205 all
Root-pruning before moving (GG), Mar 210 N
Rose 'Prominent', desert (GG), Jan 94 D
Rose shows, Pacific Northwest, June 219 N
Rose, Lady Banks' *(Rosa banksiae)*, old-fashioned favorite (GG), Apr 248 D
Rosemary, weeping (GG), Nov 222 S
Roses and smog (GG), Feb 150a S
Roses, 1977 All-America Selections, other new roses, Jan 108 N, 100 C, 111 S, D
Stickery bushes, gardening or painting behind (GG), June 207 N
Strawbery tree *(Arbutus unedo* 'Elfin King'), Jan 105 all
Texas ranger, white-flowered *(Leucophyllum frutescens alba)*, Sept 167 D
Tropical Shrubs (GG), Dec 174 S
Viburnum bodnantense, fragrant blossoms, Feb 168 N

Shrubs (contd.)

Viburnum, deciduous, January bloom (GG), Jan 93 C
Water-short gardening, guidelines, Apr 126 C
Wintersweet, January bloom (GG), Jan 93 C
Yellow bells *(Tecoma stans)*, long-blooming shrub (GG), Sept 155 D

Soils

Desert soils, improving (GG), Sept 157 D
Fall care (GG), Nov 221 N
Improving high-country soils in fall (GG), Sept 158 N, C, D
Peat moss, presoaking with water (GG), Apr 248 C
Peat moss, soil amendment (GG), Sept 156 S
Sodium problem from gray water use, June 219 C, S, D

Stakes, Supports

Bamboo as lumber for garden uses, Mar 212 all
Ladder support for split-leaf philodendron, Jan 111 N, 109 C, 108 S, D
PVC pipe supports, trellises, May 258 all
Trellis is old swing set, Mar 216 all
Trellises for vegetables, three, Apr 285 S, D

Succulents

Cacti and Succulents for the Amateur, book review (GG), Apr 247 C, 249 S; June 207 D
Cactus-succulent indoor garden basks in window sunlight (GG), Dec 174 N
Caudiciforms, unlikely shapes, odd colors, May 282 N; Nov 228 S, D
Century plant *(Agave americana)* flower stalk makes unusual Christmas tree (GG), Dec 173 S
Century plants, utility poles make driveway edging, June 243 S, D
Drought tolerant, fire resistant plants, Mar 240a C, S, D
Dudleya caespitosa and dwarf coyote brush *(Baccharis pilularis)*, drought-resistant planting combination, Apr 264 all
Landscaping with the not-too-thirsty succulents, Nov 238 all
Rock wall is color tapestry (GG), June 205 all
Sedum, hen and chickens, flowering kale, in containers for fall (GG), Sept 155 N
Stone plants, June 223 all
Succulents, planting in driftwood (GG), June 205 N

Tools

Brick carrier, Oct 264 all
Broom from bamboo, July 164 N; Sept 170 C
Compost sifter, Mar 232 C, 240d S, D
Equipment catalogs (GG), Feb 150a C; Mar 209 N
Knife, linoleum, for odd jobs (GG), Oct 253 N, C
Lawn mower, floating (GG), Sept 156 C
Mist nozzles (GG), July 138 S
Moisture sensor saves water, June 226d C, S, D; July 142 N
Reel-out cord for hanging plants for sunning, grooming, watering (GG), Dec 174 C
Seed boat makes planting easy, Feb 186 N
Soil blender, electric tiller (GG), Jan 94 C; Mar 210 N
Sprinkler, low-volume, adding to drip system (GG), July 137 C
Tools, devices for the water miser, Dec 78 all
Trimmers, string (GG), Aug 143 N, 142a C, S
Water wand, PVC pipe, May 256 all
Watering devices from plastic pipe scrap (GG), Sept 155 D

Training Plant Growth

Apple, espaliered, May 266a C, 268 S, D; June 227 N
Chrysanthemum wall, Mar 223 C, S, D
Clematis trained up over garage roof (GG), May 240 N

Training Plant Growth (contd.)
Coleus (*C. blumei*), grown as "tree", May 280 C, S, D; Oct 278 N
Grapes grow on fence (GG), Feb 151 N, 150a C, S, D
Manzanita (*Arctostaphylos densiflora* 'Sentinel'), espaliered, Nov 236 C
Myoporum laetum hedge bare-pruned on one side, Oct 282 C
Oleanders, training as hedge, tree, container plant, Aug 142d C
Pumpkin vines trained upward (GG), May 240 C
Rosemary, weeping (GG), Nov 222 S

Trees
Bare-root plants, buying, planting (GG), Jan 94 D
Cedar, Cyprus *(Cedrus brevifolia)*, Dec 184 all
Cedar, deodar *(Cedrus deodara* 'Compacta' or *C. d.* 'Descanso Dwarf'), Dec 184 all
Christmas tree farms, Calif., choose and cut guide (GG), Dec 173 C
Christmas tree, care for fresher (GG), Dec 173 S
Christmas tree, living, care after purchasing (GG), Nov 222 N
Christmas trees, cut-your-own, checking for spider mites (GG), Dec 173 C, S
Christmas trees, living, other varieties worth considering (GG), Dec 173 N
Christmas trees, living, care, selection (GG), Nov 223 C
Color, fall, intensifying (GG), Oct 252 S
Color, fall, shopping for (GG), Nov 221 S
Cones, pine, fir, spruce, collecting, Dec 192 N
Cypress Cashmere *(Cupressus cashmeriana)*, fine, rare tree, June 232 C, S, D
Desert Tree Finder, book review (GG), Mar 211 D
Drought tolerant, fire resistant plants, Mar 240a C, S, D
Dutch elm disease, protecting healthy trees from (GG), Sept 156 C
Fall color, trees to plant bare-root in desert areas (GG), Jan 93 D
Gift plants, care, Dec 182 all
Ginkgo biloba 'Autumn Gold', fall color (GG), Sept 157 S
Ginkgo biloba 'Saratoga', different foliage (GG), Nov 223 C
Locust, honey, shade tree (GG), Apr 298 N
Maple, Japanese *(Acer palmatum)*, Feb 175 C
Maple, Japanese *(Acer palmatum)*, growing in warm, dry climates, June 239 S, D
Maple, Japanese *(Acer palmatum* 'Sangokaku', *A. p.* 'Aoyagi'), to brighten winter gardens (GG), Dec 173 N
Michelia doltsopa, magnolia look-alike (GG), Jan 93 S
Olive, Russian *(Elaeagnus angustifolia)*, hardy shrub-tree, Oct 270d D
Pines, mugho *(Pinus mugo mughus)*, decorate deck through winter (GG), Apr 248 N
Pinus eldarica, P. brutia eldarica, new pine, handsome, hardy (GG), Oct 254 S
Plum, Japanese flowering, January bloom (GG), Jan 93 C
Pruning to prevent wind damage (GG), Nov 221 D
Root-pruning before moving (GG), Mar 210 N
State trees, in your garden (GG), Apr 247 N
Strawberry tree *(Arbutus unedo* 'Elfin King'), Jan 105 all
Tree cavities, methods for dealing with, Aug 148 all
Tree ring research, Oct 296 all
Trees of the Berkeley Campus, book review (GG), 150a C
Trees, clean, drought-tolerant, smallish, for desert gardens (GG), Nov 221 D
Trees, mature specimens, Civic Center, Phoenix (GG), Nov 222 D
Water-saving system for newly planted trees (GG), Oct 252 D
Water-short gardening, guidelines, Apr 126 C
Western Tree Book, book review, June 206 N

Tropicals and Subtropicals
Bromeliad offsets, removing, repotting, Sept 172 N, 158b C, S, D
Coffee plant *(Coffea arabica)*, Apr 268 all
Exotic botanical collection, San Diego Zoo, June 220 C, S, D
Fruits and vegetables, rare, seed source (GG), Apr 247 S
How to Grow Orchids, a *Sunset* book, Mar 241 N, 243 C, 245 S, D
Intern'l Association for Education, Development, and Distribution of Lesser Known Food Plants and Trees (GG), Apr 247 S
Jungle room in Puget Sound house, Sept 174 N
Lath shades subtropical plants (GG), Aug 142a C, S, D
Orchid Society show, Seattle (GG), Jan 94 N
Orchid, Chinese ground *(Bletilla striata)*, Feb 154 all
Orchid, *Phalaenopsis*, growing in air-conditioned house (GG), June 205 D
Orchids, growing outdoors (GG), Aug 142b S
Palm-lover's garden, San Diego, Aug 154 C
Palm, Mediterranean fan *(Chamaerops humilis)*, growing outside in Northwest, Feb 160 N
Palm, windmill *(Trachycarpus fortunei)*, growing outside in Northwest, Feb 160 N
Palm, windmill *(Trachycarpus fortunei)*, growing from seed (GG), Oct 251 N
Palms for So. Ariz., Calif. low-desert areas (GG), June 206 D
Palms, indoor, helping new plants adjust (GG), Jan 93 N
Palms, rain-caused bud rot (GG), Aug 142a D
Palms, windmill, source for home-grown plants (GG), Jan 93 N
Potted plants, bringing indoors for winter (GG), Nov 221 D
Subtropical garden, Huntington Botanical Gardens, San Marino, Calif. (GG), Nov 221 S
Tropical Exotics, book review (GG), Dec 174 S
Tropical Shrubs, book review (GG), Dec 174 S

Vegetables
Asparagus, planting, care (GG), Feb 150a D
Bean-thrashing made easy (GG), Sept 157 N
Bean trellis is old swing set, Mar 216 all
Beans, heirloom, non-profit source (GG), May 239 C
Beans, planning ahead for planting (GG), Mar 208 N, 209 C, S, D
Beets 'Cylindra', long, skinny (GG), Mar 210 N, C
Carrots, short or round (GG), Feb 150 C; May 241 S
Celery root, planting seed, Feb 178 N
Chard, rhubarb (GG), July 137 N, C, S
Chile pepper seeds, 25 hard-to-find (GG), Mar 210 D
Corn from midsummer to fall grown in hills, May 255 N
Cucumber 'Potluck', small space (GG), Mar 211 C
Desert vegetable garden, year-around, Mar 224 D
Expensive, short-supply vegetables, planting in your garden (GG), May 241 S
Fall planting and the drought (GG), Sept 155 C
French Intensive biodynamic gardening (GG), June 206 C
Garage roof is "beach" and container vegetable garden, May 246 S, D
Garden designed to keep out animals (GG), Apr 248 S
Gardening system, Mittleider method, Feb 172 N, 150d C, S, D
Garlic, giant or elephant *(Allium scorodoprasum)*, planting (GG), Dec 174 S
Garlic, lodging, Aug 143 N
Gourds, preserving (GG), Oct 252 N
Green beans can be "shelleys", Mar 234 all
Greens, Chinese, growing, cooking, shopping for, Mar 102 all
Growing vegetables in drought, Apr 249 C
Harvest, putting into storage, Sept 164 all

Vegetables (contd.)
Harvesting, desert area, June 234 D
How to Grow More Vegetables Than You Ever Thought Possible on Less Land Than You Can Imagine, book review (GG), June 206 C
Intern'l Association for Education, Development, and Distribution of Lesser Known Food Plants and Trees (GG), Apr 247 S
Jicama *(Pachyrrhizus erosus)*, readers' reports on growing, Apr 250d C, S, D
Kale, flowering, sedum, hen and chickens in containers for fall (GG), Sept 155 N
Lettuce, winter, early fall planting (GG), Oct 252 S
Onion seed, catching (GG), Sept 155 N, 156 C
Onions, Egyptian, above ground (GG), July 138
Onions, starting from plants (GG), Apr 248 C
Oriental greens, sowing seed, harvesting, Mar 236 all
Patio vegetable garden all in pots (GG), May 239 N, 240 C
Peppers, herbs wreath gift for cook, Dec 194 C
Pollinating flowers (GG), May 240 D
Popcorn, Apr 108 all
Potatoes, harvesting before rains (GG), Oct 251 N
Pumpkin 'Spirit', All-America Selection (GG), Mar 211 C; Apr 248 D
Pumpkin vines trained upward (GG), May 240 C
Salsify (GG), May 241 N
Small garden mixes vegetables, flowers, evergreens, paving, July 72 all
Spinach, Malabar *(Basella rubra)*, good-looking vine, June 232 N
Sprout mix, sprouting your own, Feb 156 all
Squash 'Scallopini', All-America Selection (GG), Apr 248 D
Squash, melon (GG), Feb 150a C; Mar 209 N; Apr 247 S
Starter flat for early vegetables (GG), Jan 93 C Mar 238 N
Tomato 'Sweet 100', new (GG), Apr 248 D
Tomato-growing technique experiments, varieties for cool coastal areas, May 280 N
Tomato, IPB, cool coastal areas (GG), Dec 173 N
Tomatoes, foil sleeve protects from cutworms (GG), June 205 N
Tomatoes, pruning off new growth late in season, Aug 143 N
Tomatoes, speeding ripening before frost (GG), Sept 156 N
Trellises for vegetables, three, Apr 285 S, D
Tropical and subtropical, rare, seed source (GG), Apr 247 S
Vegetables replace flower garden (GG), July 137 N
Watering, cost of (GG), Nov 221 D
Watermelon 'Sugar Bush', new (GG), Apr 248 D
Whiteflies, caution on soapy water spray, Sept 179 N, S, D, 177 C
Zucchini planted in parking strip (GG), June 206 N

Vines
Annual vine planted close to new permanent vine for quick greenery (GG), May 240 N
Balloon vine *(Cardiospermum halicacabum)*, growing from seed, May 289 N, S, D
Bluebell creeper, Australian *(Sollya fusiformis)*, for mild-winter areas, Oct 270d C, S
Cardinal climber *(Ipomoea multifida)*, growing from seed, May 289 N, S, D
Clematis trained up garage roof (GG), May 240 N
Clematis, sweet autumn *(C. dioscoreifolia)*, late, fragrant (GG), Aug 144 N
Colorful vines, in hanging baskets (GG), Sept 157 S
Cup-and-saucer vine *(Cobaea scandens)*, growing from seed, May 289 N, S, D
Cypress vine *(Ipomoea quamoclit)*, growing from seed, May 289 N, S, D

es (contd.)
ight tolerant, fire resistant plants, r 240a C, S, D
ld's trumpet *(Beaumontia grandiflora),* r 250 C, S, D
balls, hanging, Nov 226 C, S, D
how, Arcadia, Calif. (GG), June 207 S
English, ground cover for container tree G), Nov 222 N
ble vine *(Diplocyclos palmatus),* growing m seed, May 289 N, S, D
nflower *(Ipomoea alba),* growing from d, May 289 N, S, D
ach, Malabar *(Basella rubra),* good-king vine, June 232 N
eties best for desert areas (GG), June 207 D

er Plants, Waterfalls and Pools
len pools, laundry-sink, July 140 all
ll back garden with deck, pond, done on dget, July 148 C
er hawthorn *(Aponogeton distachyus),* for dy pools, Mar 232 S, D

tering
uals, growing with less water, July 152 C, S, D
l system, tree-to-tree, for desert terrace, r 110 all
ainer plants, water-saving ides, advice, e 96 all
garden with gray water, Apr 256 all
irrigation case history, Apr 292 all
ality with garden water, ideas from Marin unty, Calif., Mar 240b C, S, D
water put to work in garden, May 268 C; y 150 S, D
water, how five home owners keep gardens ng, Sept 168 C, 170 S, D
water, sodium problem, June 219 C, S, D
l-watering until sufficient rains arrive G), Oct 251 C

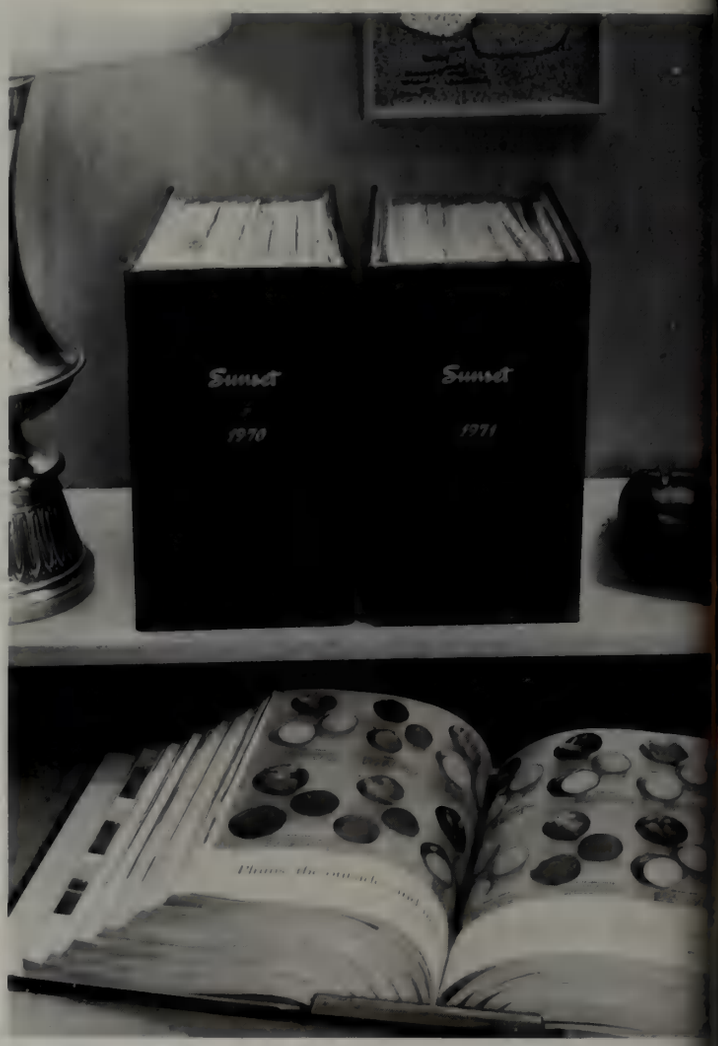
Watering (contd.)
Hillside desert plants near new homes, making sure they get water (GG), Nov 221 D
Hose hanger from scrap wood (GG), Nov 222 S
Hose reel, guards, May 252 all
Lawn irrigation, subsurface systems, Nov 106 all
Lawn water consumption (GG), May 239 S
Lawn watering, efficient, May 239 S
Lawn watering, making as effective as possible (GG), Apr 247 C
Mist system on shade structure for ferns (GG), July 138 S
Moisture sensor manufacturer, Soilmoisture Equipment Corp. (GG), Oct 251 S
Moisture sensor saves water, June 226d C, S, D; July 142 N
Pumps for moving gray water, May 287 C
Rainwater, summer, collecting, July 158 D
Recycled water, using in garden (GG), Apr 248 C
Rope keeps hose from kinking, cracking (GG), July 138 C, 137 S
Saucers under potted plants decrease watering frequency, Feb 150b C
Sprinkler, low-volume, adding to drip system (GG), July 137 C
Tools, devices for the water miser, Dec 78 all
Trees, newly planted, water-saving system (GG), Oct 252 D
Vegetables, cost of watering (GG), Nov 221 D
Water conservation, Feb 188 all
Water-conservation bulletins, Washington State University (GG), July 138 N
Water, energy conservation help in past *Sunsets,* Mar 256 all
Water frugality, winter months (GG), Dec 173 C
Water meter, portable (GG), June 207 C
Water rationing, how plants respond, June 228 S, D
Water-saving demonstration gardens, No. Calif., May 266d C
Water-short gardening, guidelines, Apr 126 C
Water situation, So. Calif. (GG), Mar 209 S
Water wand, PVC pipe, May 258 all

Watering (contd.)
Watering cans, full in garden (GG), July 137 S
Watering devices from plastic pipe scrap (GG), Sept 155 D
Watering system, checking for leaks, May 240 C
Watering wisely (GG), July 137

Weeds and Weed Killers
Crabgrass, pre-emergent controls (GG), Jan 93 S
Spurge, petty *(Euphorbia),* burning sap (GG), Nov 223 S
Weeds in new gardens (GG), Mar 210 C

Wildlife in the Garden
Attracting Birds to Your Garden, a *Sunset* book, Dec 195 N, S, D, 193 C
Bird feeder, squirrel-proof, Feb 153 N
Bird portraits, California Academy of Sciences, San Francisco (GG), June 206 C
Bird watchers' gardens gifts, Dec 194 N, S, D, 192 C
Birds and the drought (GG), Aug 142a S
Birds, cage to protect strawberries (GG), Sept 157 N
Birds, caging out (GG), May 241 C
Birds, wasps, protecting grapes from (GG), Aug 142a D
Deer, drought diets for (GG), June 205 C
Doves, mourning, helping nest (GG), May 240 N, S
Garden designed to keep out animals (GG), Apr 248 S
Hummingbirds, balanced diet for (GG), Nov 221 S
Plastic panels prevent birds from crashing windows, Dec 201 N, 193 S, D
Raccoons, metal sleeve to keep out of fruit trees (GG), Sept 157 N
Recycle for the Birds, National Wildlife Federation booklet (GG), Aug 142a C

Notes



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The Magazine of Western Living

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Cactus House Plants P. 50

Tucson's Adobe Comeback P. 36

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The Cover Story

The big, billowy oven pancake you see on the cover was baked in a paella pan, then photographed just seconds after it came out of the oven. Our article, beginning on page 44, suggests other pans and baking dishes you can use for these super-size pancakes. They're easy to make, showy to serve, and good to eat. Photograph by Glenn Christiansen

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JERRY FREDRICK

What does the doctor hear? *Adjust the cuff, pump up the sphygmomanometer, and take your own blood pressure at Alta Bates Hospital's Hall of Health, Berkeley*

Bones, organs, blood vessels—*the transparent man reveals all. Once displayed at Montreal's Expo '67, he now resides at Kaiser Health Center, Oakland*

dent nurse *deftly onstrates correct tioning technique on chronically ill dummy at U.C. Medical Center, San Francisco*

To your good health

Where can you see a transparent man wired with 6½ miles of veins and arteries, watch a machine count pills, or learn about pulse and blood pressure readings? In the Bay Area, two exhibits and a tour can give you such information about the body and health. Each has special appeal for different members of the family.

Berkeley. Alta Bates Hospital's Hall of Health encourages active participation in its many exhibits. Youngsters and adults can take their pulse and see how exercise affects its rate, listen to heart beats, test hearing and vision, or plot a biorhythmic chart. There are displays

Falling plaster *is exposing original adobe bricks of this still-unrestored building in Tucson's Barrio Historico*

A long watch on Tucson's old adobes

Two years before they became officially "historical," Tucson's weathered adobes were being studied by *Sunset*.

Staff editor Mary Ann Reese (second from right in photograph) began looking into the downtown changes in that desert community nearly four years ago. Realizing that the old *barrios* (neighborhoods) were an important part of her story, she contacted dozens of Tucsonians concerned with preserving their city's heritage: business and community leaders, architects involved in restoration, fund-raising volunteers, and some of the families who actually live in the adobes.

To read about the results of all this community action, turn to page 36.

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(smoking, alcoholism, the birth process health quizzes, and films in an adjoinin theater.

The Hall of Health is open Mond through Friday from 10 A.M. to 3 P.M Sunday from 1 to 4 P.M. Use the Rege Street entrance off Ashby Avenue. F group reservations call (415) 845-711 ext. 2555.

Oakland. Kaiser Permanente's Heal Education Center has many audio-visu exhibits. You'll see sections of body o gans and displays on teeth, nutritio drugs, pregnancy and birth, and list to health discussions on a jukebox.

In the Man-Woman Theater, detail transparent models of a man and woman light up to demonstrate the va ous organs of the body, accompanied a narrated slide show. You can a tend a 20-minute performance Mond through Friday, unless a large group h reserved the theater. Adjoining the e hibits is an extensive audio-visual libra where you are welcome to view films almost any health subject.

Exhibit hours are Monday through F day from 9 A.M. to noon and 1 5 P.M. The center is at 3779 Piedmo Avenue. For group reservations c (415) 645-6571.

San Francisco. The University of Ca fornia offers a fascinating 2-hour lo at some of its medical and teachi facilities. The tours—best suited adults—vary, but you'll probably vi the ambulatory care center and asso ated pharmacy, the laboratory where st dent nurses use lifelike models to pra tice their skills, or the large clinics whe special dental problems are treated. Pe haps you'll look in on the emergen room or see a body or brain scanner work. For those not faint-hearted, there a visit to the pathology museum.

Tours are given every Tuesday at 1 P.M meet in the lobby of the Medical Scien Building on Parnassus Avenue. Tho who want a more in-depth look at o of the medical center's disciplines, su as drug analysis or dentistry, can jo Brown Bag Tours every Wednesd through January from noon to 1 P.M Call (415) 666-4394 for tour details.

A handbook of new games to play

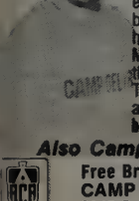
The New Games Foundation, a no profit recreation organization based San Francisco, has produced a guid book of 60 of its most popular pa times: *The New Games Book*, edited Andrew Fluegelman (Doubleday, Ga den City, N.Y., 1976; $4.95).

The idea of new games is to use t imagination rather than expensive equi ment, and emphasize involvement rath than competition. Two or two dozen c play these games—from hunker haws (a type of tug-of-war for two) to blob

Sunset School & Camp Directory

Camps

OVERWEIGHT BOYS



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DAVID FUNWICK

Body curl *is one of many exercise stops on De Anza College's new jogging path*

sort of group tag).

The 195-page paperback has some 250 photographs; it tells how you can create a tournament of new games with people on your block. It's available at bookstores or from the foundation at Box 7901, San Francisco 94120.

In San Francisco and near San Jose, two new courses for a winter jog

How to stretch those mushy winter muscles can be a problem when the tennis courts are under water and the rain-slick streets are a menace to bike riders. Two places to exercise are the new parcourses at De Anza College in Cupertino and Marina Green in San Francisco.

Along each 2½-mile jogging path you stop at 18 exercise stations where signs show you how to do such feats as body curls, jumping jacks, leg bends. You can take the whole family and go at your own pace, passing up any stations you aren't ready for. A sign at the start shows you the course layout.

Both are open 24 hours a day. The De Anza course—lighted at night—begins on the track; take Stevens Creek Boulevard and Stelling Road to the McClellan Road entrance to the college. The Marina Green course begins on Marina Boulevard. □

For travel planners, a January check list

Cruise West Africa. On March 6 you can fly from New York to Casablanca to begin a 25-day cruise aboard the MTS *Apollo*. You'll visit markets and museums in Dakar, Senegal; tour Ghana; see thriving Abidjan in the Ivory Coast Republic; shop for crafts in Liberia; and stop in Gambia and the Canary Islands. At sea there are optional lectures and seminars; academic credit is available. The cost, from $2,495, includes all transportation from New York, sightseeing, and meals. For details on this and a Black Sea Cruise in July, write to Lifelong Learning Inc., Box 2428, Laguna Hills, Calif. 92653.

Ski-tour Norway. Two weeks of ski touring in Norway begin with a February 27 departure from Seattle. You'll spend four days skiing the extensive trails near Lillehammer, transfer through the mountains for four more days at Geilo, and then continue to Oslo for sightseeing and the Holmenkollen Ski Festival. The $947 cost includes air fare from Seattle, lodging, and most meals. Ski equipment rentals, instruction, and lift tickets are additional. For details, write to R.E.I. Travel, Inc., Box 22404, Seattle 98112, or see a travel agent.

Tour central Asia. Throughout the summer months you can join 22 day expeditions to central Asia and Mongolia. After Copenhagen and Moscow, you'll visit the bazaars of Samarkand, see the architectural sight of Bukhara, and learn the natural history of the Lake Baikal region. You'll stay in a yurt tent camp while visiting the Gobi desert, and visit Ulan Bator. Numerous lectures and cultural events are included. The $2,340 cost includes lodging, meals, and sightseeing. Air fare to the Soviet Union is additional. For details on this and other tours, write to the Society for the Preservation of Archeological Monuments, Box 5564 University Station, Seattle 98105; or see a travel agent.

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What a travel agent can do for you: Provide information on tours; reserve space on air, rail, bus, and steamship lines; make hotel, ranch, and resort reservations; take care of trip planning, including side trips and special events. Travel agencies do not charge for arranging transportation or package tours, but do charge for "custom" tour service.

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beginning page 8

VESTERN GROCERY DIRECTORY
beginning page 82

GARDEN CENTER
beginning page 107

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beginning page 110

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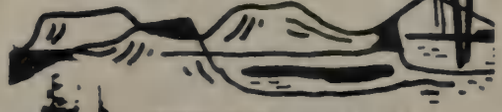

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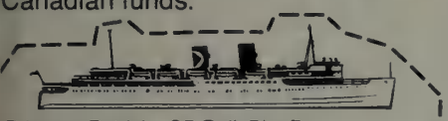

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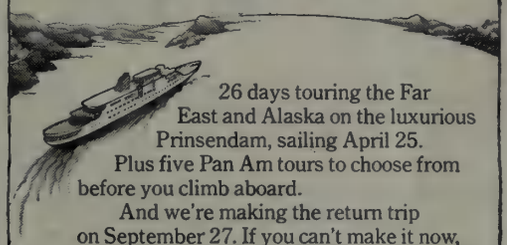

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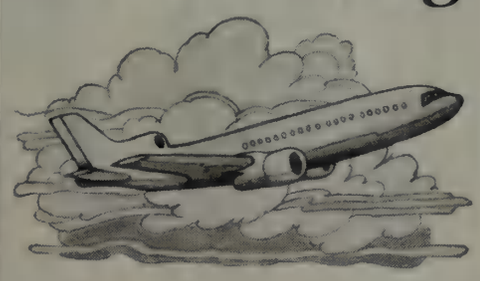

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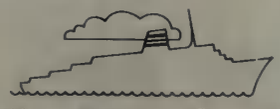

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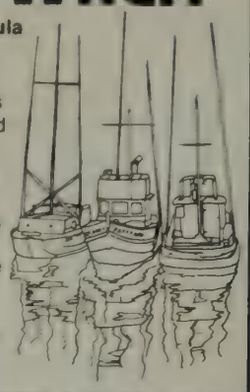

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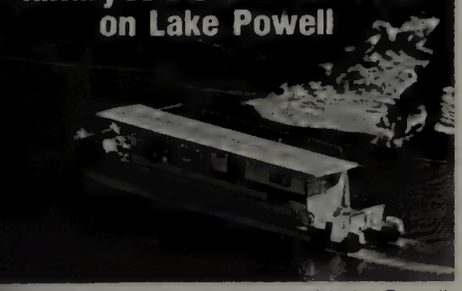

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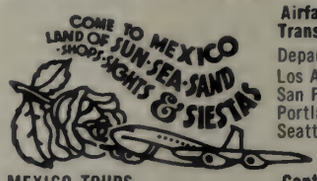

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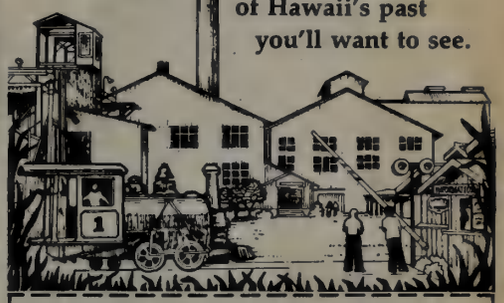

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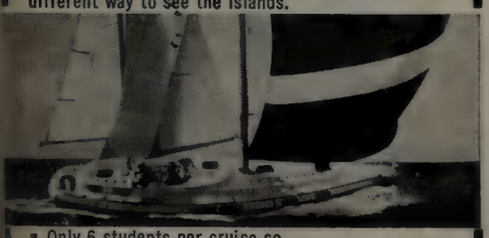

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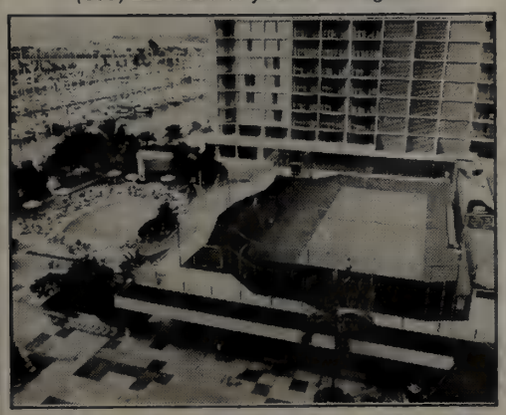

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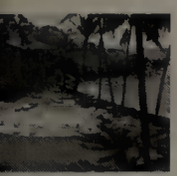

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TRAVEL DIRECTORY IS CONTINUED ON PAGE 21

Island specialties *including akee (a tropical fruit) were served in Port Antonio home to recent West Coast visitors*

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Jamaica's "Meet the People" progra might be the reason to tip the Caribbe trip planner's choice to that island. puts you in touch with Jamaicans wl have asked to entertain visitors.

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For a recent cruise visitor, the memo of a hillside picnic with a Jamaican far ily and the first encounter with brea fruit is vivid, while other ports of c have begun to blur.

On a longer stay, the program gives y a chance to meet people who can answ questions and help you enjoy being a new place.

If you plan to visit one of the resc areas listed below, contact the tour board office. Three weeks before a riving, cruise visitors should notify t board of their arrival date and descri their interests, occupation, and famil Longer-term visitors should simply st by one of the offices.

Kingston: 78-80 Harbour Street.
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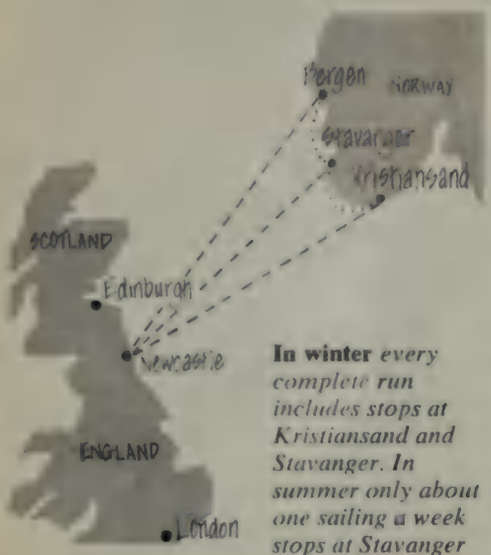

In winter *every complete run includes stops at Kristiansand and Stavanger. In summer only about one sailing a week stops at Stavanger*

From England to Norway by overnight ferry

Of all the ferry routes bridging the briny moat that separates England from continental Europe, one that Americans seldom hear about runs between Newcastle upon Tyne and Bergen, Norway. It's tailor-made for any vacation itinerary that includes both Britain and Scandinavia.

Newcastle, about 4 hours by train from London and less than 2 hours from Edinburgh, is better known for industry than sightseeing. But if you're looking for an overnight stopover point nearby, you might consider Durham, about 20 miles by rail toward London. It's a university town with an impressive cathedral and delightful wooded paths along a river.

Bergen, on the other hand, is a picturesque port city that invites exploration. It is also the starting point for tours of fjords and mountains en route to Oslo and for cruises up the Norway coast.

Through the winter, from about mid-September to mid-May, the large comfortable ships of the Fred. Olsen-Bergen Line make only two weekly sailings each way. One from Newcastle and one from Bergen reaches the other city overnight within about 21 hours. But the other weekly sailing each way takes a great deal longer because of long stops in Stavanger and Kristiansand.

Summer brings a great increase in th number of travelers, and the number o sailings is doubled. Ships leave Newca tle four days a week at 4 or 6 P.M. an arrive in Bergen the following day 11 A.M. or at 2, 3:30, or 4 P.M., depen ing on whether or not the ship makes scheduled stop at Stavanger. Ferri leave Bergen at 2 or 6 P.M. and reac Newcastle by 1 or 3 P.M. the next da The Newcastle departures and arriva are standardized for best connectio with trains to and from London; special bus service hustles passenge between the dock and the train-static on sailing days. Connections are simpl in Bergen—the ferry dock is near th city center, close to hotels and oth transportation.

Shipboard facilities suggest a cruise sh or floating resort hotel: semiform dining room, cafeteria, lounges, ba (one offers dancing), duty-free shop and plenty of seats inside and outsid Cabin accommodations range from $10 to $162 per person; sleeperettes (recli ing seats) cost $70. Meals are extra. Th ferries also carry motor vehicles.

For schedules, further information, ar reservations, see a travel agent or wri to Fred. Olsen-Bergen Line, Bradbenke 1, Bergen, Norway.

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Speck against the sky: *pennant above elephone building gives marine weather*

Weather flags in the Bay Area

When viewed from the James Lick Freeway near the Bay Bridge, the telephone building is just another tall part of the San Francisco skyline. But during high winds or a storm, it's worth a closer look —that's when the American flag on top gives way to the warning flags and lights of the National Weather Service.

During blustery January, you might see symbols such as one red pennant for a small-craft advisory, two pennants for a 4 to 47-knot gale, or a square red flag with black center square for a storm above 47 knots. Night signals are a red light above a white one for a small-craft advisory, white above red for a gale, and two red lights for a storm warning.

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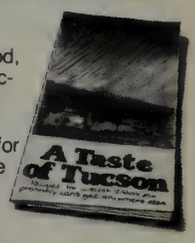

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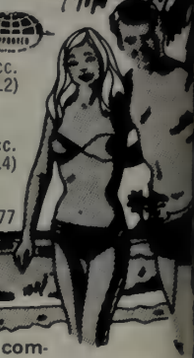

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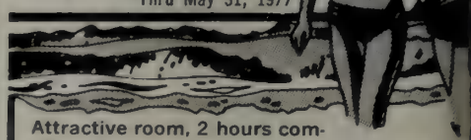

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Oakland/San Jose to Salinas ~ $15 or $8.50

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Los Angeles to Santa Barbara ~ $13

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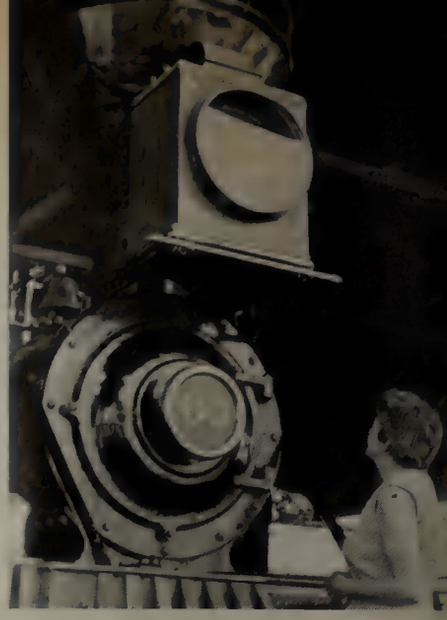
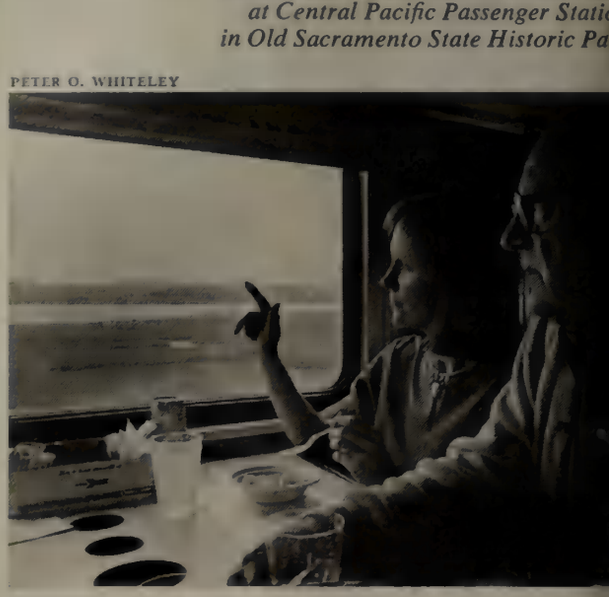
Chinatown. **OR** Leave San Diego 1 P.M., back 10:55 P.M.—giving you about 5 hours for a visit to El Pueblo de Los Angeles Historic Park, Olvera Street, and dinner



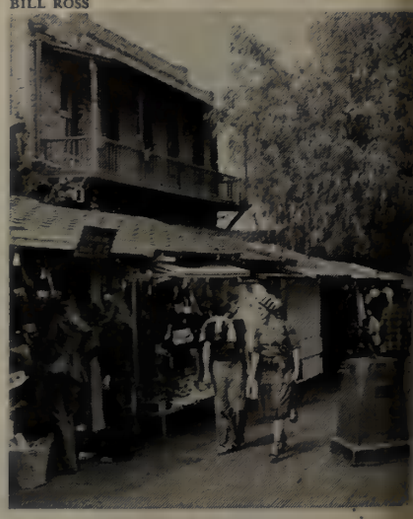
Sacramento. *Near Amtrak termin you can see old No. 60 and other reli at Central Pacific Passenger Stati in Old Sacramento State Historic Pa*

PETER O. WHITELEY



Halfway to Salinas. *San Jose passenge get a good view of Elkhorn Slou through dining car windo*

BILL ROSS



Los Angeles. *Marketpla ambience of Olvera Street short walk from Union Statio invites strolling. Guided tou are Monday through Saturda 10, 11 A.M.; noon; 1 P.*

DON NORMARK

rtland. *Exploring a fascinating area not far from train station, day-trippers stop for lunch estored Merchants Hotel in Skidmore Historic District*

Oakland. *Sacramento-bound youngster gets a boost from porter. Amtrak shuttle buses pick up San Francisco passengers 30 minutes before Oakland departure*

The one-day train trip

A morning ride, lunch and a look around, then an evening ride back. Here are nine suggestions

ain ride to a not-too-distant city— back the same day—can let you ple January sales in a neighboring or help you recover after the re- holiday rush. It's also a way to for yourself what Amtrak currently to offer.

rak now regularly schedules and op- es all of the passenger trains between of the major Western cities. New leet equipment and the Amcafe food ce are already established on the *Diegan*, between Los Angeles and Diego, and on the *San Joaquin*, and to Stockton. Amfleet includes lstered, reclining seats fitted with ng trays, and individual overhead controls.

map at left suggests nine one-day d-trip rides between cities in Wash- n, Oregon, and California. Round- ares shown are for adults; children r 12 ride for half-fare.

Layover times between arriving and departing allow you to plan short excursions to sample attractions near the train depots. Passenger terminals at the destinations shown are located in older downtown districts that have been undergoing urban renewal or historic restoration—so there's plenty to see.

For example, within a few blocks of the Sacramento Amtrak station you can visit a recently dedicated re-creation of the Central Pacific depot, and dine, shop, and stroll among the restored buildings of Old Sacramento State Historic Park.

You can't reserve seats on local runs (Los Angeles - San Diego, Oakland - Stockton). But reservations are advised on through trains (the *Coast Starlight* run); call your local Amtrak office or dial, toll free, (800) 648-3850.

For maps or other information, write to the chamber of commerce or visitor bureau in your destination city. □

Seattle. *Near King Street Station: bulbous Kingdome (the new sports arena) and Hing Hay Plaza in international area*

As they walk *at new park tidelands, the low, winter light shines on mist to blend sky and water and erase the horizon line*

JERRY FREDRI

Higgledy-piggledy *pier takes anglers out onto San Francisco Bay from China Camp settlement*

Brand new state park half an hour north of the Golden Gate

A stretch of Marin County shoreline still slopes past clumps of oaks down through grasses and reeds to San Francisco Bay. The visitor wonders how this fragile shore—less than 30 minutes' drive north of the Golden Gate—can survive so close to a large population. The question will be happily resolved this month when the California State Park Foundation turns over the slope's 1,475 acres as a yet-unnamed unit of the state park system.

The new park is already open to visitors but is not yet developed for hiking or picnicking. The best way to see it is to take an 11-mile detour off U.S. 101 and circle the San Pedro Peninsula. From the south you'll pass the McNear's Beach County Park turnoff as you approach the start of the park near China Camp about midpoint around the peninsula.

To reach *new park from south, leave U.S. 101 at Central San Rafael exit. Take Second Street to Third and continue along canal; Third becomes Point San Pedro Road*

Below the road to the right, Chin Camp's collection of weathering stru tures mark what used to be the actu camp—a large settlement of shrimp fisl ermen. There is a pier here and son parking.

Last year when the shore land can on the market, the private State Par Foundation quickly took an option on i This gave the legislature time to ap propriate funds and purchase the pro erty at cost.

To support their state-wide park wor the foundation offers family membe ships for $25 a year. Members have fr day use at all but historic units of tl state park system. For information abo joining, write to the California Sta Park Foundation, 1706 Broadway, Roo 610, Oakland 94612; or call (41 834-4411.

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5,000	71.74	10 yrs	3,608.80	8,608.80
7,500	132.40	7 yrs	3,621.60	11,121.60
7,500	107.60	10 yrs	5,412.00	12,912.00
10,000	176.53	7 yrs	4,828.52	14,828.52
10,000	143.47	10 yrs	7,216.40	17,216.40

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SUN 17

DON NORMA

In the dim room, *diners are caught in mid-gesture by a photographer's flash. They're sitting on wood inserts in concrete eating areas reached by a gravel path*

Indian food at the Muckamuck

Singling out just one restaurant in a ci as cosmopolitan as Vancouver, B.C may seem like folly. Yet there is som thing special about the Muckamuck. I probably the only restaurant in a maj Western city serving genuine Northwe Coast Indian food.

On the menu are such delicacies as co raspberry soup, fried seaweed, soapbe ries, pan-fried oolichans (candlefish barbecued duck and rabbit, Indian-pr pared vegetables, smoked Alaska blac cod, and smoked and barbecued salmo

You can also get other seafood, salme and duck soups and clam chowder, ar tasty raisin-filled bannock bread. A com plete dinner for two costs $20 to $30.

No less exotic are the surroundings- gravel floors, sunken seating on concre platforms around heavy wooden table massive posts supporting heavy beam low lighting, Indian carvings.

Upstairs a lounge scheduled to open t this spring will offer drinks and appeti ers, and will feature Indian performe (storytellers, singers, dancers).

The Muckamuck (which means "to ea in Chinook jargon) is at 1724 Dav Street. It's open daily for dinner onl 5:15 to 11 P.M., and is always crowde Reservations are not accepted, so arri early or be prepared to wait.

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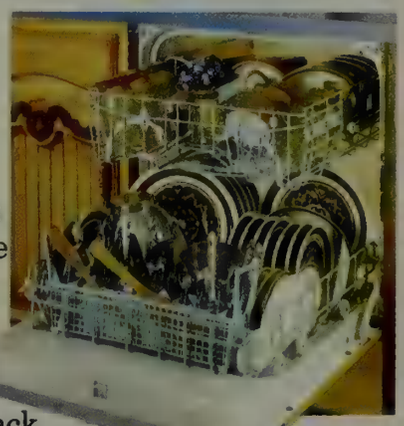
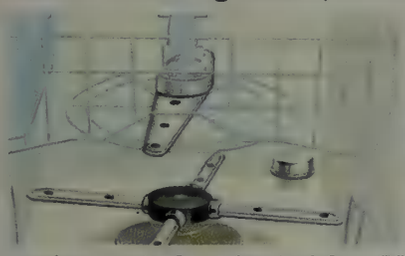


Load-As-You-Like washing, a series of improvements. These improvements are the basis for the new Load-As-You-Like washing system. They combine washing arms above and below both racks for all-around cleaning action, with an adjustable upper rack and fold-down prongs for easier loading. There's even a Soft Waste Disposer that eliminates the need for pre-rinsing, even on pots.



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Exhibits *in Humboldt Cultural Center's restored century-old building showcase the work of local artists*

"Bully!" *Teddy Roosevelt oversees lunch at Old Town Bar and Grill. Open gazebo at Old Town Plaza (above) is surrounded by renovated shops near the waterfront*

GLENN CHRISTIANSEN

At the foot *of Second Street is the flamboyant mansion built by lumber magnate William Carson. Fountain and cobbled divider are part of area redevelopment*

From skid row to showcase, Eureka's waterfront is coming back to life

Redevelopment *is underway along Second Street from C Street to the Carson Mansion*

Four years ago, Eureka's waterfront district between U.S. Highway 101 and Humboldt Bay was a classic skid row.

Today, a concentrated redevelopment program is revitalizing this archaic district into a showcase that city planners call Old Town. Work right now is focusing on Second Street, from the Carson Mansion west to C Street. Several good restaurants have opened, along with antique and crafts shops, new businesses, and a community art center.

Planners stress that this is not a recreation of old Eureka, but rather an upgrading of existing structures (many date back to the turn of the century) with landscaped streets and parking, and underground utilities. Along Second Street the result will be a thoroughfare with a strong Victorian feeling enhanced by period-style lighting, strategically placed mini-parks, and promenades with views of the bay.

Funds for the project are tight, even though the Department of Housing and Urban Development (HUD) is putting up three-quarters of the money. So, planners have had to improvise in order to control the visual elements of Old Town building restoration.

One of their more unusual concepts is a "façade easement," whereby the redevelopment agency acquires the face of an older building by voluntary agreement or by trading for such improvement as parking or driveway paving. The property owner then restores the façade along agency guidelines.

So far, the expenditures under this program have averaged under $300 per building and have allowed the agency to develop consistent street fronts. The

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Take the controls. Notice how the switches and gauges come readily to hand and eye. As an added touch, the speedometer is graduated in km/h as well as mph.

Bring it to life. Underhood there's an innovative team of a V-6 — Buick-made, of course.

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From here, nothing much left to do but enjoy the options that are available. Like a Delco AM-FM stereo with tape. Or factory-installed CB. Or electric door locks, windows and trunk. In short, Skylark constantly rewards your pleasure, elegant fabrics here, cut pile carpeting there — everything from shiny lacquer paint to squarish European lines.

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Consider mileage. According to EPA estimates, a Skylark with standard V-6 engine, available automatic transmission, and standard 2.56:1 axle ratio achieves 27 miles per gallon on the highway, and an equally impressive 19 in the city. Naturally your mileage may vary, depending on how and where you drive, the condition of your car, and its equipment (California EPA figures are lower). But anytime you can combine mileage of that sort with the magic we just described and get it all for a purchase price that's within reach of all but the most austere budgets, well, it makes Skylark well worth considering, doesn't it? You know it does.

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GLENN CHRISTIANSEN

Fresh paint *and trim on these Victorian-style houses are a result of Eureka's façade easement program*

row of houses on Third Street between K and L streets is a good example.

Visitors can see the effects of three years of work on a short detour from U.S. 101: From Fourth or Fifth street, head north towards Humboldt Bay on M Street. At Second you'll be in front of the Carson Mansion, a flamboyantly classic Victorian now used as a private club. From the mansion you can walk west on Second Street along a promenade offering views of the bay and several islands which are populous bird rookeries.

Second Street between C and M is in various stages of renovation. The heart of the redevelopment is Old Town Square at the corner of Second and F streets. Buildings for some blocks in each direction have mostly been restored and contain new shops, galleries, and places to eat.

Antiques seemed to be slightly less expensive here than in San Francisco. Among the shops is Angelus Clockwork Music at 420 Second Street. Besides selling antique pianos and clocks, it's a museum of mechanical music, with player pianos and music machines dating from the nineteenth century; all are in working condition. Ask the owner to play some for you.

Around the corner from Old Town Square is the Humboldt Cultural Center at 422 First Street. Originally a mercantile store built in 1875, it now houses shows by local artists and craftsmen.

The Eureka Chamber of Commerce on Highway 101 near Hawthorne Street (2112 Broadway) is a good place to ask for maps and visitor information. □

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Fjords and Baltic	Aug. 17	19 Nights
Black Sea	Sept. 8	17 Nights
Egypt/Near East	Sept. 22	17 Nights

As enjoyable as a Vistafjord cruise is, The Sagafjord offers more. More ports in Europe. And more time to enjoy the luxuries of cruising, as you cross the Atlantic, from New York or Port Everglades.

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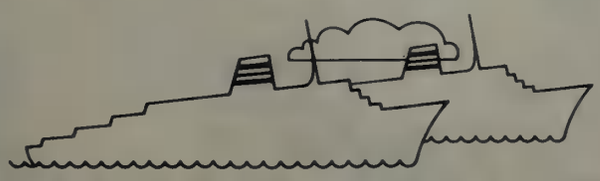
Only one thing prevents us from calling this ship a once in a lifetime experience. Over half the Sagafjord's passengers have cruised on it more than once.

Spring Mediterranean and Egypt	Apr. 16	41 Nights
Scandinavia, Baltic and Eastern Europe	May 28	32 Nights
North Cape, Fjordlands and Northern Europe	Jun. 30	33 Nights
European Vacation Cruise	Aug. 2	31 Nights
Fall Mediterranean and Adriatic	Sept. 3	38 Nights



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A cruise like no other.

It is, indeed, a cruise route like no other in the world, and one you can take leisurely and luxuriously with Westours, the leading travel organization in Alaska. The company has served Alaska visitors since 1947 and offers 8-day cruises—all within the real Inside Passage—between Vancouver, B.C., and Skagway, Alaska.

You have a choice of two magnificent ships: Holland America's Prinsendam and—new to northern waters in 1977—the Monarch Star, owned by Monarch Cruises, a division of Holland America Line.

These two vessels—with their spacious staterooms, elegant dining salons, nightclubs, movie theatres, swimming pools, shops and many recreational activities—bring the amenities and atmosphere of a luxury resort to the rugged Inside Passage.

You rise from a comfortable bed and look out on a land that, for the most part, has never felt the step of man. You view glacial canyons, the spectacular ice cathedrals of Glacier Bay National Monument, and myriad wildlife from an easy chair, or while being graciously wined and dined.

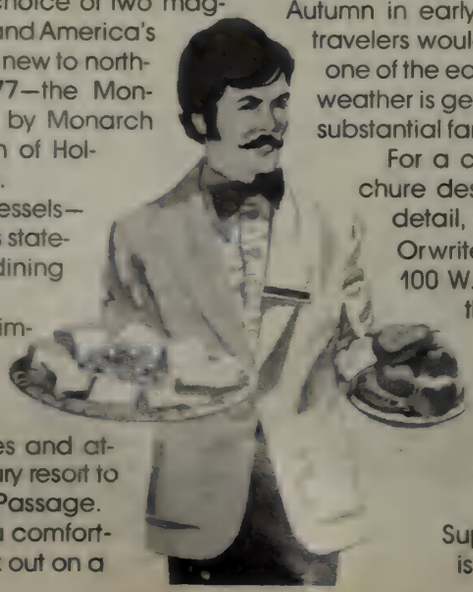
Exploring Ashore

Included in Westours' cruise itinerary is time ashore at Ketchikan, "Salmon Capital of the World" and a center of totemic art; Juneau, capital city where attractions range from mighty Mendenhall Glacier to the famed Red Dog Saloon; Skagway, boardwalked gold rush town and stomping grounds of Soapy Smith; and Sitka, rich in Russian history and relics, as well as Indian arts and crafts.

Sailings May-September.

Westours offers sailings every four days, from the first stirring of Spring in mid-May, to the colorful coming of Autumn in early September. Prudent travelers would do well to consider one of the early or late sailings; the weather is generally very good and substantial fare savings are offered.

For a colorful, 22-page brochure describing the cruise in detail, call your travel agent. Or write Westours, Dept. W-14, 100 W. Harrison Plaza, Seattle, WA 98119. A postcard will do.



Superbly prepared food is served 5 times a day.

STEVE W. MARLF

Four basic *types look and perform very differently, cost up to $85*

Choosing a compass . . . and wh you need one

Essential equipment for outdoorsme should always include a compass. It ca be your best friend in unfamiliar terr tory. But finding your way as to whic type to buy can be confusing. A simpl understanding of just how each work can help.

A basic compass part is the magnetize needle or dial swinging in an air o liquid-filled housing. Direction indica tion is printed on the dial or housing it self or on a rotating dial around th housing. The compass may also have sighting device to help pinpoint object on the landscape.

Many compasses have a "damped needle or dial; this is a way of slowin down the swing of the needle so you ca read the compass more easily. There ar three main damping methods: mechani cal (a press of a button brakes th

Align sight *on cruiser compass with landmark on skyline to take a bearing*

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Hyatt Hostess directing hotel guests

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needle), induction (magnetic force slows the needle), and liquid (oil or water slows the needle). Of the three, most experts agree liquid damping is the most effective. Others say no damping is really necessary.

How much accuracy is enough?

If you plan to stick to marked trails and never get lost, even the dime-store model of compass will do. But for the wilderness camper, cross-country hiker, or orienteer, more accuracy is vital. Even 1° of compass error is enough to put you about 90 feet off course for every mile you travel.

In general, a compass that has a long needle and a large dial with clear, precise degree graduation can be counted on for accuracy—provided the instrument is used correctly, of course. Dials of the best models are broken down into 1° or 2° increments, although up to 5° is acceptable for backpacking or orienteering.

Here are the basic features of the four main types of compass:

Fixed dial

The lightest, least expensive, and least accurate type (the dime-store model). Usually has a small face and no degree graduation; direction indication is painted on housing; an undamped needle swings in an air-filled housing. Useful only in giving general direction. Cost: 25 cents to $2.50.

Floating dial

Instead of a needle, a dial with direction indication and degree-graduation markings floats in an air or liquid-filled housing; some are damped. Easy to read, most include a sight. Most models are light enough for backpacking needs; may come with plastic or lightweight metal case. Cost: $5 to $45.

Cruiser

Also called a forester's compass because it's used by these professionals for laying routes. It's sturdily built, comes in a metal case, and usually has a cover and sight. The dial has precise graduation and a long, damped needle. Very accurate but bulky and heavy—not for backpackers. Cost: $13 to $85.

Orienteering

You need no other instrument to determine readings from a map if you have this compass. It is mounted to a transparent baseplate, with measurement markings, that acts as a protractor. Degrees are marked on a movable dial so you simply place the compass on the map, set the dial, and read your bearings. Most are liquid-damped and include a sight. Light and compact, this type is a good choice for backpackers. Cost: $5 to $50.

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New shops *of La Placita complex (above) face historic Plaza de la Mesilla. Patio diners (below) relax in shade of desert greenery at Gyro Taverna, one of La Placita's restaurants*

They're making *tortillas in walled patio of La Casa Cordova, an 1846 adobe now restored as a museum of Mexican heritage. Across street in background are landscaped buildings of new 80-acre Community Center*

TOM NORMARK

The changing heart of downtown Tucson

A new community center and Arizona's first urban historic districts

is decade Tucson built a new com-
nity center downtown, and in the
ocess stumbled over a dusty old treas-
e it had almost forgotten—two neigh-
rhoods of adobes that were the city's
ginnings. Bold steps have been taken
preserve these two remarkably intact
eas brimming with over 200 adobes
ilt in the 1800s. In 1975 Tucson
ned them as historic districts.

ing these pages as a guide, you can
mple Tucson's old and new along a
mile strip at downtown's western edge.
om Interstate Highway 10 take the
ngress Street exit a few blocks east to
community center. Walking tours
ggested on page 38 will help you dis-
ver Tucson's frontier adobe architec-
e—as important to the Southwest as
log cabin was up north.

w complete in the community center
the Museum of Art (open Tuesday
rough Saturday 10 to 5; Sunday 1
5), concert and exhibition halls, Mar-
tt Hotel, restaurants, shops, offices,
d government complex. They're linked
graceful over-the-street walkways,
rks, multilevel plazas handsomely
ndscaped and splashed with fountains.

r information on community center
ncerts, sports events, and theater
while you're in Tucson, visit the box office in the Arena/Exhibition building (see map), open Monday through Saturday 10 to 6; or write to Box 3053, Tucson 85702; or call (602) 791-4266.

Most of the old adobes lie just north and south of the community center in two *barrios* (neighborhoods) that grew during the time Tucson was governed by Spain (1775 to 1821) and Mexico (1821 to 1854), through Arizona's 1912 statehood. Streets still meet at odd angles in the *El Presidio* and *Barrio Historico* districts. Much of the architecture looks like a direct transplant from northern Sonora, Mexico, as the sketches at the bottom show.

The biggest surprise is that all these adobes weren't destroyed years ago. By luck, Tucson simply grew in other directions. New zoning protects the historic districts from new building that would be out of character; it can also delay demolition of a historic structure for six months—hopefully, enough time to find a way to rescue it.

The adobes are still lived in—many by Mexican families. Several dozen have been restored, mainly as law offices. Eleven—converted for museums, restaurants, shops, and other public uses—are numbered stops on our map. Many others look dilapidated.

Tucson's mud house era

Architecturally, little changed in Tucson between 1775, when the Spanish built a walled presidio to protect their northern frontier, and 1854, when the United States acquired much of Arizona and New Mexico in the Gadsden Purchase—opening the Southwest to American pioneers. Tucson was so remote that supply trains rarely reached it, so houses had to be built with whatever nature provided: mud, manure, straw, pine logs, even cactus (ocotillo stalks and saguaro ribs for ceilings).

A no-nonsense adobe style evolved—single story, flush with the street, common walls, often built fortresslike around a patio (such as La Casa Córdova, 4 on map). Walls were about 2 feet thick. Mud-packed roofs sloped to promote drainage. Often a zaguán—wide central hallway—provided access between the street and patio, and doubled as a breezeway.

Touring Tucson's historic barrios

Dotted lines on our map propose walking routes to give the flavor of the two historic adobe districts. In each, you'll

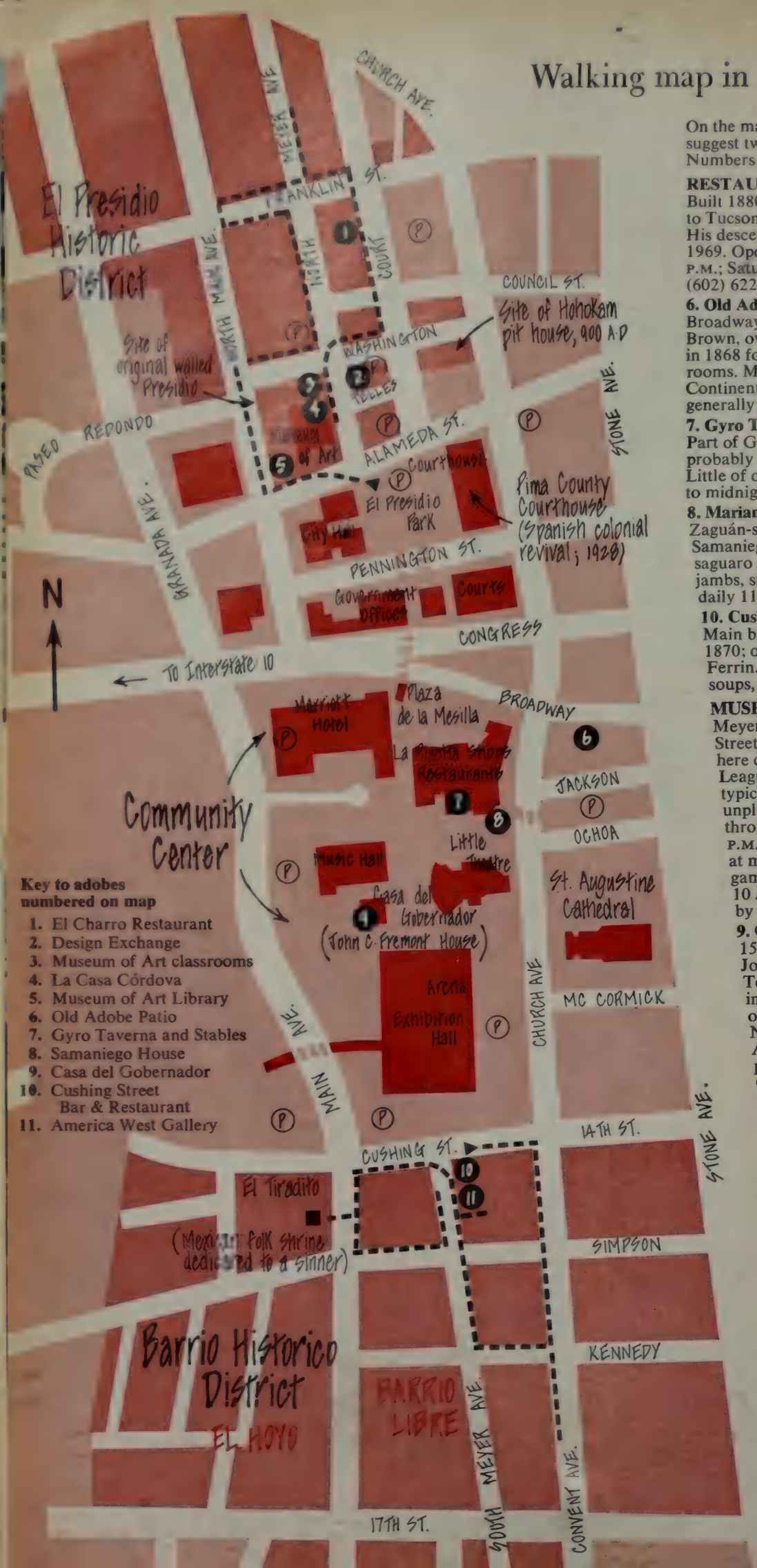
Tucson still has more than 200 old adobes

anish-Mexican frontier style *(late 1700s 1854): flat roof, geometric, few nings, tall walls (15 feet) for ling—so heat could rise*

American Territorial style *(1854 to 1912): American pioneers lived in existing adobes but tacked on some Victorian touches like this wood porch, modified French doors*

1880s to '90s: *Pitched roofs capped leaky mud ones. Craftsmen arrived to do even fancier things to adobes, like Jules Flin's stone pier porch*

Walking map in downtown Tucson



Key to adobes numbered on map

1. El Charro Restaurant
2. Design Exchange
3. Museum of Art classrooms
4. La Casa Córdova
5. Museum of Art Library
6. Old Adobe Patio
7. Gyro Taverna and Stables
8. Samaniego House
9. Casa del Gobernador
10. Cushing Street Bar & Restaurant
11. America West Gallery

On the map, P indicates public parking, dotted lines suggest two walking tours in the historic districts. Numbers locate restored adobes now open to the public.

RESTAURANTS, SHOPS. 1. El Charro, 311 N. Court. Built 1880s to 1900 by stonemason Jules Flin who came to Tucson in 1882 to work on San Augustine Cathedral. His descendants converted house to a restaurant in 1969. Open weekdays 11:30 A.M. to 2 P.M., 5 to 8:30 P.M.; Saturday 5 to 8:30 P.M.; closed Sunday; (602) 622-5465.

6. Old Adobe Patio (Charles O. Brown House), 40 W. Broadway. Shops, restaurant share zaguán-style adobe. Brown, owner of a saloon and gambling house, bought it in 1868 for $500, added gingerbread wood porch, extra rooms. Mexican menu 11 A.M. to 5 P.M.; Mexican or Continental 6 to 9 P.M.; closed Sunday; 882-9411. Shops generally open 9 A.M. to 5:30 P.M.; closed Sunday.

7. Gyro Taverna/The Stables, La Placita. Origins hazy. Part of Gyro Taverna's patio wall and facing shops probably date to 1870s as stables, bordello, apartments. Little of original remains. Restaurant open daily 11 A.M. to midnight; 624-2316.

8. Mariano G. Samaniego House, on Church Avenue. Zaguán-style townhouse bought late 1870s by Samaniego, rancher and stage line owner. Pine and saguaro rib ceilings in two rooms. Note typical deep jambs, sills. Serves hamburgers, crêpes, omelets, drinks daily 11:30 A.M. to 1 A.M.; closed Sunday; 792-0785.

10. Cushing Street Bar and Restaurant, 343 S. Meyer. Main bar/dining room was a country store around 1870; other rooms were home of rancher Joseph Ferrin. Furnished in 1880s style. Sandwiches, salads, soups, drinks daily 11 A.M. to 1 A.M.; Sunday 4 to 12.

MUSEUMS. Both free. **4. La Casa Córdova,** 173 N. Meyer. Two rooms probably predate 1850; Meyer Street rooms added by 1879. Mexican families lived here continuously until 1970s. Restored by Junior League 1974-75 as Mexican heritage museum—typical 1850 to 1879 Mexican Tucson home. Raw unplastered walls, earth floor. Open Tuesday through Saturday 10 A.M. to 5 P.M., Sunday 1 to 5 P.M. Los Padrinos (the godparents) host open house at museum, teaching visitors Mexican songs, games, skills. Tours of Casa Córdova Tuesdays 10 A.M. during January, February, or by appointment; call Toby Falk, 624-2333.

9. Casa del Gobernador/John C. Frémont House, 151 S. Granada. 1858 zaguán-style adobe built by Jose Maria Soza family, Sonoran ranchers. Territorial governor John C. Frémont lived here in 1880s. Rescued from demolition and restored on original site by Tucson Heritage Foundation. Now a composite of 1850s to 1880s Mexican and American frontier architecture, furnished with period antiques. Available for club meetings. Open Tuesday through Saturday 10 A.M. to 4 P.M.; docents will give tours; 623-4904.

GALLERIES. 2. Design Exchange, 186 N. Meyer. 1860s to '70s townhouse remodeled as gallery and studio for work of Southwest designers: textiles, fashion, jewelry, furniture. Irregular hours: (602) 884-9465.

11. America West Gallery, primitive and modern art, 363 S. Meyer. Mexican zaguán-style home built in 1870s by rancher Francisco Carrillo. Note saguaro and pine ceilings, millstone collection in patio. Gallery open Monday through Saturday 11 A.M. to 4 P.M. during January; then by appointment; call 623-4091.

OTHER POINTS OF INTEREST.

3. Tucson Museum of Art classrooms, in Washington-Meyer home, 102 W. Washington. Adobe and brick house, ca. 1870, possibly built over original Presidio wall. You can watch art students at work.

5. Tucson Museum of Art Library, in Edward Nye Fish home, 119 N. Main. Some 5,000 books on art subjects in 1868 adobe with 15-foot ceilings, garden patio. Open 10 A.M. to 3 P.M. weekdays.

DON NORMARK

NORMAN A. PLATE

School children *admire one of community center's fountains. Behind is Samaniego House—1870s adobe townhouse, now a restaurant. Inside (right) lunch crowd dines under original ceiling of exposed pine and saguaro ribs*

d a tortilla factory to visit, and pleas- t dining in a restored adobe.

uided walking tours through both dis- cts, organized by the American Asso- ation of University Women (AAUW), e planned for January 19, February , March 16, and April 20. Tickets, cluding lunch in a restored adobe, cost out $4. For reservations write or call orma Niblett, 7510 E. 32nd St., Tuc- n 85710, (602) 296-9565; or Betty kins, 105 Sierra Vista, Tucson 85712, 5-9463.

e AAUW also publishes Tucson's icial guide to this area, including in- rmation on significant adobes and -ly-1900s homes now used as private idences. For a free copy of *Through cson's History, a Self-Guided Walk- Tour,* send a stamped, self-addressed siness-size envelope to the addresses ove; or pick one up at Casa del Gober- dor museum (9 on map), the Museum Art (235 W. Alameda), or the Mar- tt Hotel lobby.

Presidio . . . a walking tour

arly 60 adobes built between 1850 d 1900 remain in El Presidio His- ic District. We begin our tour in El esidio Park, located within the bound- es of Tucson's original 750-foot- uare presidio (no visible remains).

oss Alameda, and walk north along east side of Main. Notice four classic obes from the 1860s to '80s. On the lward Nye Fish house, 119 to 133 ain (5 on map), and adjacent Hiram evens house, 145 to 163, pink plaster vering the adobe is scored to resemble ne. The third house is on the corner Washington and Main; the fourth, Verdugo House at Franklin and ain, still has its original *canales* (dec- ative drainpipes) extending through parapet.

ashington Street approximately fol- vs the original presidio's northern ll (see plaque at southeast corner of ain and Washington). When you walk north on Meyer from Franklin, notice the single-story row houses flush with the sidewalk, capped with gable roofs of varying height and pitch. Peek through the gate at 299 Court to see an old Hispanic courtyard, and at 182 Court to see a remodeled one built around a century-old fig tree.

At the southwest corner of the Church-Washington intersection, archeologists in 1954 found evidence of even earlier inhabitants—the Hohokam Indians who had set up housekeeping here as early as 900 A.D. The site's now a parking lot.

Our tour ends on Meyer, next door to Tucson's Museum of Art, at La Casa Córdova (4 on map). Now a Mexican heritage museum, it'll give you the clearest idea of what adobe homes were like during Tucson's Spanish-Mexican era. If it's locked, the Museum of Art receptionist will let you in.

For an appropriately Mexican meal in this district, try El Charro Restaurant (1 on map); or El Rapido Tortilla Factory at 77 Washington (open weekdays 8 to 6) for homemade quesadillas and tamales to take out.

Frémont House, 1850s to 1880s styles

One of few adobes in the community center to escape demolition during the 1960s was Casa del Gobernador (9 on map); Territorial Governor John C. Frémont rented it in 1880. Now a museum, it shows interiors popular from 1850 to 1880; antiques are from local homes.

Barrio Historico . . . another walking tour

Here you'll find at least 150 adobes in architecturally different neighborhoods. *El Hoyo,* west of Main, is still predominantly Mexican, with small detached adobes and fences of live ocotillo.

Our proposed route, east from Main, is in the southern end of an area known in the 1800s as *Barrio Libre*—a "free zone" where cock fights, drinking, and gambling were outside police control.

Cushing Street is a good place to begin. The blocks extending south, between Meyer and Convent contain the barrio's earliest, most valuable historic adobes—virtually all built before 1900. Restorations are closest to Cushing Street. Farther south, plaster has crumbled, exposing original adobe bricks.

Now, as in the 1800s, the row houses are small apartments, usually three rooms deep from street to patio. Some still have no plumbing. Look across Kennedy down Convent to see some of Tucson's earliest brick homes.

Fountains and iron grills didn't exist here historically except in plazas. But you'll notice some fine grills on windows of the restored America West Gallery at 363 Meyer (11 on map). Each window has figures of a half dozen desert creatures. You can explore one patio through a gate reading 369,377,379 Meyer (it leads to public restrooms).

On Main, stop at El Tiradito Shrine ("The Castaway"). It's dedicated to Juan Oliveras, a young herder who in the 1850s was killed while entangled in a love triangle. Legend has it that pious locals, concerned because he was buried on unconsecrated ground, lit candles and prayed for him. It's also called the Wishing Shrine; some believe your wish will come true if your candle burns through the night.

Across the street at La Suprema Inc. tortilla factory (423 Main), you can see tortillas being made and buy some fresh, from 8 to 6 Monday through Saturday. You might end at the Cushing Street Bar and Restaurant (10 on map); its patio is relaxing on a warm day. □

Combination heater *(about $850) can be opened for fire viewing, closed up tight for controlled combustion. It sits on ceramic tile in front of plaster-on-asbestos wall. Owners: Wayne and Kathy Leong, St. Helena, California*

Why and how wood-for-heating is making a comeback

Barrel-type heaters *seen below and at right have tempered glass windows. Accessories available for any heater include in-flue oven pictured below (about $50), heat exchangers, water heaters. At right, 10-inch pipe in stairwell is fitted with electric fan to pull hot air off ceiling, blow it to downstairs bedrooms*

The romance and aroma of a crackling wood fire have returned to a number of Western homes, but with increasingly serious purpose. A handful of forward- and backward-looking pioneers are rediscovering wood-burning heaters as a practical, economical answer to basic home heating needs.

Such heaters have two basic advantages over conventional fireplaces: They have manual or automatic controls for regulating the amount of oxygen entering the firebox, thus controlling the rate of combustion (a big fast-burning fire wastes fuel). And they are designed to efficiently radiate heat into the room (fireplaces are notoriously inefficient in both regards; see page 70 for ways to improve their

PETER O. WHITELEY

Small Norwegian heater *(about $300) took over heating chores from the fireplace it now vents to. Wood that once burned in one day now lasts three or four, and the house is warmer. Owner: Dave Miller, Woodside, California*

NORMAN A. PLATE

Fan-assisted *automatic damper heater (about $400) helps the Walter B. Guyons of Murphys, California, cut their fuel bills by 40 percent. They spend $200 per year for dried oak logs*

erformance). Some sophisticated de-
gns have auxiliary air intakes and sec-
ndary combustion chambers that help
burn not only the solid fuel, but also
e gases released through combustion.

he heaters shown on these pages are
st a sampling of the dozens of kinds
vailable, new and used. They vary from
all cast-iron reproduction box stoves
60 or less) to large modern airtight
eaters ($900 or more). Also being man-
actured today are those grand old
ood-burning cookstoves that also heat,
d elaborate three-way (oil/coal/wood)
rnaces. For suppliers, look in the yel-
w pages under Fireplaces or Heaters.

efore choosing, consider how large an
ea you want to heat. A small potbelly might be fine for warming a room addition or supplementing an existing heat system, but you'll need a larger unit with perhaps some type of fan system to heat an entire house or cabin. Smaller heaters also need shorter logs and frequent refueling, while some large models will burn three or four hardwood logs for 8 to 14 hours. (Your local building code may require a back-up conventional heating system whether you use it or not.)

If you want to be able to see the fire as well as bask in its warmth, you have a few choices: Old-style parlor stoves offer a warm glow through mica windows; some contemporary heaters, like the one above, can be opened like a fireplace or closed up tight for controlled burning; the two at far left have tempered glass viewing windows; and today's version of the Franklin stove can be operated with open or closed doors.

Antique heaters are usually not as efficient as modern airtight units, but they are attractive and will supply more heat than most simple fireplaces. Before buying, check for cracks and poor-fitting doors and vents that will cause smoking or uneven burning. Small cracks in the casting can be brazed or repaired with furnace cement.

When installed and used correctly, wood heaters can be as safe as any other heating system. The best way to prevent burns is to wear gloves when opening hot doors. Don't overfeed the heater, and

PETER O. WHITELEY

New cast-iron parlor stove *(about $350) reduces winter propane bills to about $40 per month. The James Quinns of Woodside, California, burn two cords of redwood and manzanita each winter*

Air intake innovation. *Homemad heater by Living Systems, Winters, California, has air suppl pipe that draws from outside*

Parlor stoves and Franklin stoves are old-fashioned and romantic. For one thing, you can see the flames

warn children to stay away or set up a protection barrier.

Building codes specify clearances for both firebox and flue; a good rule of thumb is to keep the heater at least 3 feet from any combustible material. But be warned that a large overheated heater can ignite a piece of furniture several feet away.

Flue fires can also be avoided if you install the flue correctly (see box at right), clean it regularly, and avoid burning green, unseasoned wood. Wet wood causes excessive deposits of highly volatile creosote. When these deposits catch fire, they can damage mortared chimney joints or bubble out the top of the flue, perhaps setting the roof on fire.

The sense of self-sufficiency when you heat with wood can be very gratifying, especially as conventional fuel costs rise. In many places wood burning is already economical. (For a report on the heating values of firewood and possible sources, see page 94 of the February 1976 *Sunset*.) But it is also time consuming and takes some conviction: Wood cutting and carrying, fire building, and ash emptying are all chores you'll have t fit into your life.

For more on wood heaters and the manufacturers, consult these book *Heating With Wood*, by Larry Gay (Ga den Way Publishing, Charlotte, Vt 1974; $3.50), *How to Plan and Bui Fireplaces* (Lane Publishing Co., Menl Park, Calif. 1973; $2.45), *The Woo burner's Handbook*, by David Have (Harpswell Press, Brunswick, Main 1973; $2.95), and *Wood Stove Kno How*, by Peter Coleman (Garden W Publishing, 1974; $1.50).

DON NORMARK

Antique round parlor stove *($250) warms upstairs bedroom, vents into unused side of fireplace chimney. Architect-owner 's Jerry Gropp, Mercer Island, Washington*

NORMAN A. PLATE

Modern Franklin stove *(not at all like Ben's original) has doors that close to control draft. It supplements a conventional heating system at the Richard Jones house, Healdsburg, California*

Little box stove *(about $130) adequately heats a den addition at the Don M. Woods' house in Calabasas, California*

For efficiency and safety, the flue system is critical. You have three choices

They're installing *a heavy metal bracket to support an insulated chimney pipe. Round metal skirts will hide hole*

'here's there's fire, there's smoke, and if ›u have a wood-burning heater you need reliable flue to get the smoke outside.

ıy old flue will not do. The heater can ›erate efficiently and safely only if the stem is the right size, installed correctly, ıd maintained regularly.

ıere are three basic types of flue.

ngle-wall metal pipe flue ($3 to $5 per ot) is the most common kind. It is expensive, and it helps radiate heat into e living space. The pipe must be insulated here the flue passes through combustible all, ceiling, attic space, and roof. Use ıution with long runs of single-wall pe, indoors or out, since cold spots can ıuse pyroligneous acids and water to condense on the inside, forming dangerous deposits of creosote.

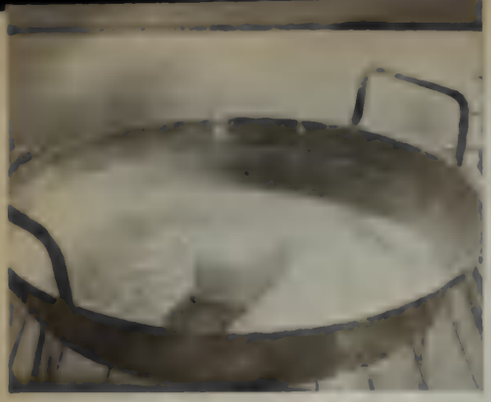
The second type is double-walled or triple-walled insulated metal pipe. This more expensive pipe ($8 to $20 per foot) is most often used where the flue rises on the outside of the house or is hidden in a wall. Shielded by insulation or a jacket of air, the inner pipe stays hot even outdoors, increasing the draft and minimizing creosote deposits.

A less likely possibility is the masonry chimney: it can be inexpensive but is time consuming to install. If you're adding a heater to an existing chimney, be advised that codes and practical considerations allow only one fire source to vent to a single-flue chimney.

Whatever type of flue you use, make sure it is well supported and tightly fitted so it won't come apart if there is a chimney fire or small explosion in the firebox—or an earthquake. Most manufacturers make specific recommendations, and local codes may further limit your choices and methods of installation. Codes also specify minimum heights: usually 3 feet above the roof, but higher if a peak or some other combustible structure is within 10 feet of the flue.

To keep your flue safe, wipe it clean annually with burlap rags, have it professionally cleaned, or use one of the commercially available chemical chimney sweeps. When applied to a burning log these chemicals cause the creosote to flake off, and burn up in the fire.

Stainless steel sections *twist-lock together. Two more sections and a spark arrester and cap will go above roof*



1 • *Melt butter in pan in a hot oven; meanwhile, mix batter for Dutch Baby*

2 • *Pour batter from blender container into hot butter, set pan back into 425° oven*

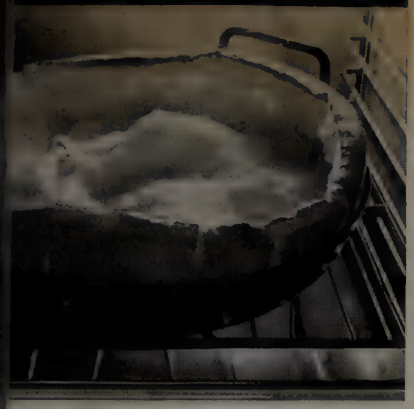
3 • *After about 7 minutes, pancake begins to puff, then climbs up sides of pan.*

5 • *Bring the Dutch Baby to the table as soon as it comes out of the oven*

6 • *Cut and serve in wedges; pass accompaniments and sausages. You can have a second pancake cooking in the oven for another round of servings*

Showstopper pancake...it's the

It's easy, delicious, beautiful...and it



4 ▪ *In about 20 minutes, it's billowy and browned, ready to serve*

DARROW M. WATT

For the first 55 years of this century, a family-run restaurant called Manca's was an institution in Seattle. Mention its name to many Seattleites now and they'll still recall the menu's specialty—Dutch Babies.

Victor Manca created the dish, his son Eugene tells us, as a version of a big German-style pancake. But his recipe was just for little oven pancakes so the family called them Dutch Babies.

The name stuck. Although the actual recipe used at Manca's remains a family secret, now many people know all types of oven pancakes as Dutch Babies—even our super-sized version.

Made with eggy batter like that used for popovers, the pancake puffs up dramatically in the oven. The result is even more spectacular, like the Dutch Baby on our cover, when the batter is baked in a big container such as a paella pan. In addition to paella pans, we've used big iron frying pans; large ceramic, glass, and metal baking dishes; and even foil roasting pans. Any shape will work, but the pan should be fairly shallow—not much over 3 inches deep.

Pick your pan, then measure its total volume by pouring in quart measures of water. Our recipe tells you the ingredient proportions to use in relation to the pan's volume. The Dutch Baby shown here was made in a 4-quart paella pan, using the four-egg recipe.

Serve the pancake for breakfast, lunch, or a light supper. It's delicious with fruit, either spooned over as a topping or to eat on the side. Round out the menu with a meat such as sausage, bacon, or ham. Dutch Babies are quick to make; you can pop a second one in the oven when you take the first one out. Offer a variety of toppings to make them fancy.

A tip before you start—have everyone seated at the table before you take the Dutch Baby out of the oven. Whether for family or guests, you don't want them to miss that first spectacular look.

Big Dutch Babies

Pan size	Butter	Eggs	Milk and flour
2-3 qts.	¼ cup	3	¾ cup each
3-4 qts.	⅓ cup	4	1 cup each
4-4½ qts.	½ cup	5	1¼ cups each
4½-5 qts.	½ cup	6	1½ cups each

Select the recipe proportions to fit your pan, and get out the ingredients you'll need. Put butter in pan and set into a 425° oven, then mix batter quickly while butter melts. Put eggs in blender container and whirl at high speed for 1 minute. With motor running, gradually pour in milk, then slowly add flour; continue whirling for 30 seconds. (With a rotary beater, beat eggs until light and lemon colored; gradually beat in milk, then flour.)

Remove pan from oven and pour batter into the hot melted butter. Return to oven and bake until puffy and well browned—20 to 25 minutes, depending on the pan. Dust with ground nutmeg, if you wish, and serve at once with any of the following toppings. These sizes make 3 to 6 servings.

Pancake Toppings

The classic. Have a shaker or bowl of powdered sugar and thick wedges of lemon at the table. Sprinkle sugar on hot pancake, then squeeze lemon over.

Syrups. Pass warm honey, maple syrup, or any favorite fruit syrup.

Fresh fruit. Serve a bowl of sliced strawberries, sweetened to taste; or defrosted frozen peach slices; or any fruits in season, cut and sweetened.

Hot fruit. Sauté fresh apple or pear slices in a little butter until tender and translucent. Sweeten with sugar or honey to taste and offer with cinnamon-sugar and sour cream or yogurt. Or heat banana or papaya slices in melted butter over medium heat, turning until hot; serve with lime wedges.

Canned pie filling. Try cherry or apple pie filling, cold or warmed; add lemon juice and ground cinnamon to taste. Serve with yogurt or sour cream. □

amous Dutch Baby in super size

veral times as large as its Seattle ancestor

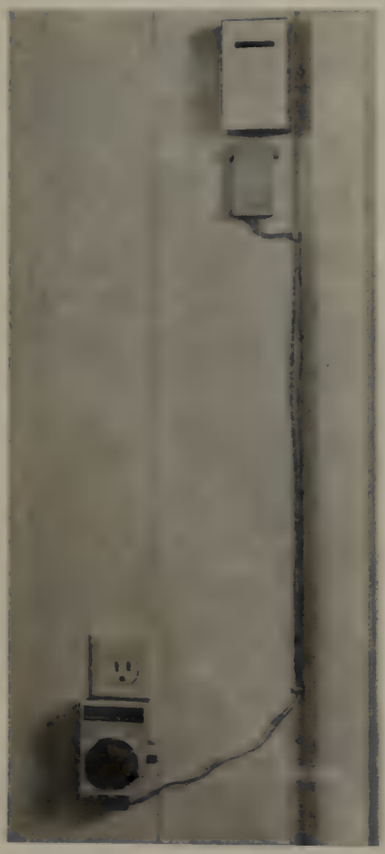
The Changing Western Home®

Foam blocks for play. Nobody gets hurt

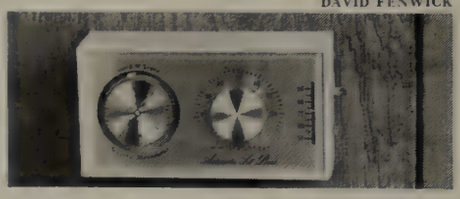
Common styrene insulating foam—perhaps left over from another project—can quickly become a staggering pile of play blocks. Easy to cut with a hand or power saw, they are surprisingly durable, mercifully quiet, and safe—it's hard to hurt your brother or the furniture with a 1-ounce block.

Not all types of foam will work; for instance, plastic beadboard will crumble and break. Best is the light blue or white closed-cell extruded foam—called Styrofoam and made by the Dow Chemical Company. If you need a source for it, check the yellow pages under Insulation Materials (look for outlets handling commercial refrigeration jobs), or under Plastics—Foam. A 2 by 24 by 108-inch piece should cost $19 to $26. Hobby shops sometimes carry foam in smaller sizes (a 3 by 12 by 36-inch slab costs about $6).

The foam can be hand-painted with acrylic paint; it will burn, but it's hard to get started; and though it is nontoxic, snacking on the blocks should be discouraged.



DAVID FENWICK



Temperature turn-down devices can save you money

A sure way to lower heating costs is to reduce your thermostat temperature setting for a few hours each day—manually or by installing an automatic temperature-setback control.

The three types shown here are sold through home improvement centers and heating equipment dealers. Each is basically a clock with a triggering mechanism linked to the thermostat—while you're asleep or away, it automatically lowers the temperature to a preset level. A setback of 5° to 10° below your normal setting for about 8 hours can save up to 15 percent of your fuel consumption.

The Intermatic Temperature Tender at left above (about $30) has an electric timer that plugs into a wall outlet and a small heater that mounts under your thermostat to "convince" it that the room is warmer than in actual fact.

The White-Rodgers unit at top right (about $60) replaces your conventional thermostat without any extra wiring. It uses a battery-operated clock. The Chronotherm above (about $75) also replaces your old thermostat, and requires some new wiring for its electric clock transformer. The White-Rogers can be wired only to a two-wire thermocoupler system; the Chronotherm can also be used with millivolt systems or adapted for 110-volt wiring.

Write to us for a solar reading list

November's *Sunset* had a cover artic on solar heating and cooling and a sid bar (page 142) that gave sources information on using solar energy home. But we did not list books. Th growing number of volumes on energ —varying widely in reliability, and us fulness — makes careful evaluatic difficult.

But we have now found a most usef residential solar bibliography to sha with *Sunset* readers. Prepared by Pr fessor Donald W. Aitken of the Cent for Solar Energy Applications at Sa Jose State University, the 21-pag reading list describes 55 informatio sources (including many books) th can be of direct help around the hous Subjects in addition to solar applic tions include energy conservatio alternative energy sources, and climat responsive building design.

For an up-to-date copy, send a sel addressed legal-size envelope (4 by inches), stamped for 57 cents, to Sol Reading List, *Sunset Magazine*, Men Park, Calif. 94025.

DARROW M. WATT

Ridding your roof of decay-causing moss

This winter when you're on your roof cleaning out the gutters, check the shady slopes for moss. The trouble with moss is that it traps moisture, causing decay, especially in wooden shakes or shingles. (Be careful—it's also dangerously slippery.)

One way to control moss is to install zinc galvanized or copper flashings and ridges; they corrode slowly, releasing chemicals that kill moss up to 15 feet from the ridge. Bare copper wires stretched horizontally below shingle butt lines should also work.

Or, instead of these metal controls, you can use one of the many effective chemicals available. First, remove any low branches or leaves that are contributing to the dampness problem. Carefully scrape and brush away as much moss as you can, taking care not to dislodge or damage shingles. Apply the chemicals by spraying or sprinkling. Since plants will suffer from residue runoff, it's best to temporarily remove any plants directly under unguttered eaves or near downspouts.

Here is a list of possible treatments; be sure to follow manufacturer's instructions carefully.

Pentachlorophenol. Usually sold dissolved in oil base. Not for use on asphalt roofs; toxic to plants.

Sodium pentachlorophate (5 percent solution). Mix 2 pounds with 5 gallons water. Safe on asphalt roofs; toxic to plants.

Copper sulfate (bluestone or blue vitriol). Use ¼ to ½ ounce per 10 gallons water. Color residue should rinse off. Corrosive to gutters, downspouts, other metals; rinse thoroughly after applying. Plants can take small doses.

Zinc chloride (10 percent solution). Corrosive to metals, injurious to plants.

Weed killers sold under various trade names. Check label for use on moss.

Table salt. Sprinkle on dry or diluted in water. Effective for short time; corrosive to metals, injurious to plants.

Laundry bleach or detergent. Effective for short time; injurious to plants. Bleach might discolor the roof. □

GLENN CHRISTIANSEN

When you need a tiny sink

'ou really don't need a very big sink or a wet bar, and when your space is nly 2 feet wide like the one off the itchen of Dr. and Mrs. Malvern Dorson, the smaller the sink the better. rchitect David Stovel of Ross, Calirnia, found the perfect mini-sink at restaurant supply store—it's a 6 by 6 y 10-inch stainless steel insert pan bout $13) designed for use in a rving steam line.

Ie had a plumber drill a hole in the ottom, then added a self-sealing drain. he pan rests in a hole cut in the utcher-block countertop; small wood hims wedged against pan sides from ne bottom secure the sink in place.

Insulating parka helps keep the heat in your water heater

It's hard to know exactly how much heat is lost through the walls of a hot water heater, because this depends on the age, condition, and type of heater, the air temperature around it, the water temperature setting, and how much water is drawn off. But if you put your hands on the wall of the tank, you'll notice it's throwing off some heat—and that's heat lost.

This can be a significant loss: In a house that has a gas range, furnace, and water heater, over a 12-month period about one-third of the gas used is for heating water.

As a solution, many hardware stores and home improvement centers are now selling an easily installed water-heater insulation kit, made by Johns-Manville Corporation, for about $20. The kit—for either a gas or electric heater—contains enough 1½-inch fiberglass vinyl-faced insulation (R-6) to cover the tank, vinyl tape for securing it, and complete instructions for cutting and fastening. All you need is a tape measure, a pair of scissors, and less than an hour's time.

NORMAN A. PLATE

Generous new window *looks right out on garden. It has no draperies—privacy was created by landscaping that turned city lot into a woodland. Jalousies open for ventilation*

A skylit retreat: *Alcove with sing and built-in bookcases with reading makes use of low space under slopin for lounging, guest sle*

DON N

The studio *would have seemed like a tunnel without the skylig over the niches. In midroom, light fixtures next to the wood-paneled chimney shine down on a rectangular desk*

Upstairs is now a tree house

And it has two lounge-niches cut into the roof walls, each with its skylight

Once a cramped space under a sloping roof, this second floor remodel now includes a studio - guest room as airy and open as a tree house.

A full glass gable end overlooking the garden helped to open the room. Removing the dropped ceiling and adding new beams also made a big difference. And so did the two new sleeping or lounging niches set back under the roof (one is shown in color at right).

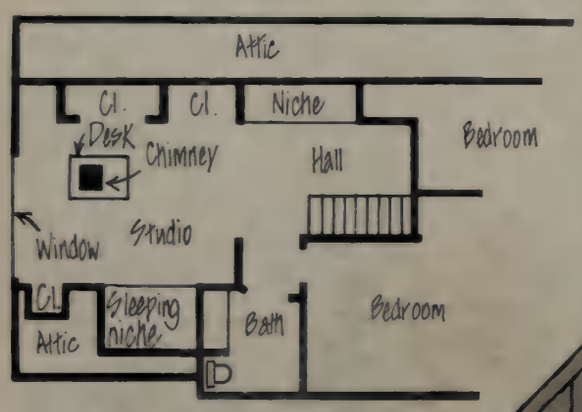
The niches leave a maximum of floor space open and free of furniture in a narrow room where standing room under the slope of the roof measures only 12 feet across. Skylights above each one make them great places to sit and read, talk, listen to the rain, and watch the stars. The skylights also balance t light from the glass gable at the roon end; without them, the room would ta on the aspects of a tunnel.

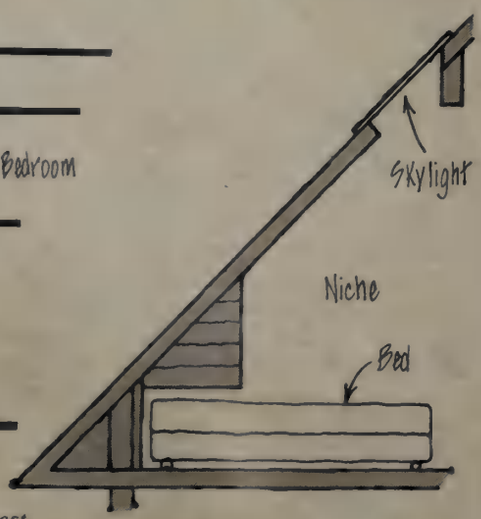
The same idea of lounging or sleepi niches could be adapted to any attic A-frame house—wherever the ro pitches steeply. On a straight-sid house, similar niches might be can levered out from the side walls.

Also to save space, a work table su rounds all four sides of the furna chimney that goes up through the mi dle of the room. Lighting for it com from a dropped ceiling above the tabl The chimney itself is sheathed in woo strips of varying thickness, a timber version of flagstones.

You reach the second floor from the e trance hall on stairs carpeted in de blue, repeating the colors of the fi floor. But at the top of the stairs t carpet color switches to off-white to gi a strong sense of transition into a lighte airier space.

Planning for the remodel was done landscape designer Richard W. Paint for owner Mrs. Mildred McGilvra.





Floor plan *shows location of niches on opposite sides of studio. Sketch at right shows how bed slides under backrest when it's used as a lounge during the day*

Cactus this big *would cost $35 to $150 and more. Designer Baruch Himmelstein uses paintbrush to dust Trichocereus spachianus in his San Francisco studio. Above him and moving clockwise: Opuntia bigelowii, Cleistocactus hyalacanthus, C. strausii, Pilocereus palmeri (half of it), Trichocereus schickendantzii in front; in center are Cereus peruvianus (crested form), Opuntia microdasys above it*

GLENN CHRISTIANSE

Well armed *with white spikes up to 6 inches long, Opuntia quimilo should be kept out of reach. To remove cactus spikes—especially fine ones—from your finger, use sticky tape*

Not a bouquet, *this is a Rebutia hybrid in full spring bloom at Tanque Verde Greenhouses in Tucson*

Cactus?

They make unusual and undemanding house plants. They open up a new hobby arena. They range from cheap to very costly. They have built-in spiny defenses. Some of them are spectacular

ctus and other succulents are invading house plant kingdom most recently gned over by Boston ferns, piggy-back nts, ornamental figs, and palms. ey'll probably never unseat the old orites, but they do open up a new and citing field for indoor gardeners.

sculptural quality cactus are unsurssed, and their intricate beauty belies ir toughness. They're also slower wing than most house plants; getting big for a room is hardly ever a probq. Cactus are not demanding but, conry to some tales, they won't thrive on glect—though you can leave them watered for a longer period than other nts. And most will grow in sunny inor situations that would fry the leaves ht off a ficus or philodendron.

ven enough light and proper care, ny cactus and succulents will provide ouse-plant bonus; flowers that can be wnright breathtaking in their delicacy d intensity of color. They may appear single blossoms, as clusters, or as wnlike rings. Some flower when very ung—often the flower is larger than plant; others have to be quite old fore blooming.

e cost? It depends how patient you are

the notion of cactus collecting appeals you, you can start off with small nts costing about $1 each. Or save a w years' growing time and get a more pressive effect by buying larger plants the $15 to $35 range. For real drama d scale, figure on paying from $45 to er $100. There are many kinds to oose from; you see just a few sugstions on these pages.

two indoor situations are identical, our advice on caring for cactus must rather general. If you find a method t works for you, stick to it.

nting mix . . . good drainage is a must

, cactus will not grow in pure sand. any growers and hobbyists have their n special planting mixes, but you won't go far wrong using a basic combination of equal parts medium-coarse river—not beach—sand, garden loam, and leaf mold or humus. You can also use commercially prepared cactus mix as is or with a bit more sand added if it seems to hold too much water. A vital requirement is fast drainage.

Choose a pot that's about an inch bigger than the plant's rootball. Don't plant too deeply; usually the soil line should reach just to the body of the plant, not up its sides. After planting, top-dressing the container with gravel improves water penetration, reduces evaporation, prevents a surface crust from forming, and sets the plants off better.

They still need a drink

Cactus are built to withstand varying degrees of drought but they won't thrive without water. They're sensitive to overwatering, especially if drainage is poor.

There is no set rule on when to water cactus and succulents (generally, succulents require more water). It depends on the soil mix, size of the plant, kind of pot, location in room, and time of year.

In winter, most plants go into a rest period (usually necessary for blooms) when the intake of water is reduced. During this period, water only enough to keep the plant from shrivelling; thoroughly soak the mix when you do. This may be only once a month. If in doubt, don't water.

In spring, when growth starts, increase watering to about once a week. During summer, plants may require watering twice a week. Keep the soil mix moist but not soggy. In fall, gradually reduce watering again. Watering from above helps wash off dust.

To feed or not?

Underfed plants will hang on for an amazingly long time, but fairly regular feedings encourage good growth and blooms. There appears to be no best schedule. One grower suggests monthly feedings with a complete fertilizer at half

PETER O. WHITELEY

Window collection *gets 4 to 5 hours of sun daily. They've been here two years. Some bloom in spring, others in summer*

Dramatic accents *in this living room are tall Cereus peruvianus and a stubby fire barrel (Ferocactus acanthodes)*

Red Desert, *on San Francisco's Market Street, is one of the new cactus and succulent shops. Tallest plants are Euphorbia ingens, around $125*

PETER O. WHITELEY

Tabletop partners *are silvery Cleistocactus strausii costing $18 and a plump golden barrel (Echinocactus grusonii), $35*

the strength recommended on the label.

Another feeds her plants every time she waters, using a complete fertilizer also mixed at half strength. Still another suggests monthly feedings using a fertilizer low in nitrogen and relatively high in phosphate (for flower development) and about medium in potash. Do not feed in fall and winter—only spring through summer.

Bathe them with light and sun

Your plants won't develop good color or bloom well without lots of light and a few hours of sun. A good location is in or near a sunny south, west, or east-facing window. You'll have to turn plants regularly for even growth. Be cautious about the sun's strength: Don't put plants too near the glass on hot days, and you may even want to filter the sun with light draperies on occasion. Compensate for poor exposure to sunlight with artificial growing lights; use them from 14 to 18 hours per day in summer, or follow manufacturer's directions.

Warm days and cool nights

In their native habitats, most cactus an many succulents live in warm days an cool nights. Indoors, the best range fo most of them is about 70° during th day and 60° to 65° at night. The coo nights go hand in hand with the winte rest period needed for blooms and vigo ous growth.

Repotting and handling

Generally, you should repot plants abou every two years. Spring is best, whe plants are starting growth and can re adjust faster. Move them up to the ne size of container or repot in the sam one, using some fresh soil.

To avoid punctures and scratches, tak special care when repotting. Leath gloves help and wads of crushed new paper between spines and gloves hel even more and cause less damage to th spines. Smaller or soft-spine plants a no problem. Hold them with wood tong chopsticks, or a collar of folded new paper or paper towels.

The six plants *shown about life size below all came in the mail, ready to go into small pots. They give an idea of the great range in kinds, shapes, growth habits. The three spiny ones are cactus, the others succulents. The astrophytum may be a shy bloomer indoors, and the copiapoa usually needs plenty of sunshine to set its flower buds*

Stapelia variegata

Astrophytum ornatum

Aloe variegata

g-scale plants *(left to right): pachypodiums, shua tree, saguaro, barrel cactus*

here to buy plants

umerous nurseries specialize in cactus d/or succulents. Other nurseries and rden centers are putting in stocks of th—usually more succulents than ctus. Some supermarkets also handle nall plants. House-plant boutiques are od sources, and sometimes you can t plants from designers who buy large es from growers and collectors.

any specialty nurseries have extensive talogs. For a partial list, send your quest with a stamped, self-addressed velope to Cactus Editor, *Sunset Magaine*, Menlo Park, Calif. 94025.

n extra precaution: Buy only from putable sources. There are bootleg erations that sell plants taken illegally om public and private lands. Some ates have strict laws against helping urself to cactus even on private land.

ike to join the Cactus & Succulent Soety of America? For a list of chapters, rite to Virginia Martin, 2631 Fairgreen ve., Arcadia, Calif. 91006. □

Mail order is one good way to start your collection

Buying cactus and succulents *through the mail is usually a dependable method of obtaining plants. We ordered a $10 (10 plants) and a $20 (20 plants) starter collection from two different nurseries. Each nursery selected the plants they thought would be good for a beginner. At right you see how the orders were received.*

Unpacking *mail-order shipment, getting them set for potting up*

Wood tongs *gently support small plant, protect fingers*

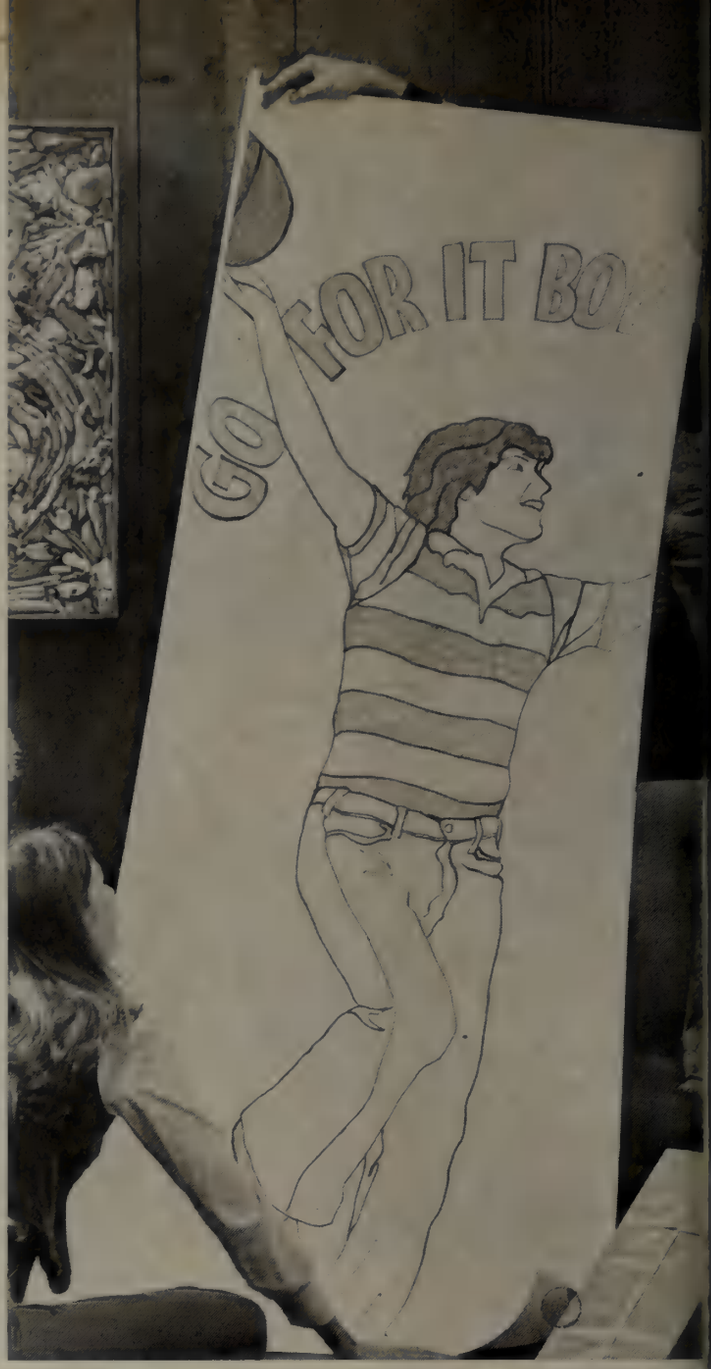
Plants came bare root (no soil), wrapped, and labeled. One shipper included directions on planting; the other didn't, but the catalog did include specific instructions. Recommended planting mix was one part each of medium-coarse sand, good garden soil, and leaf mold. We planted in clay pots, but you can also use plastic ones. Just remember that planting mix in a plastic pot dries more slowly than in clay.

Copiapoa tenuissima

Haworthia fasciata

Mammillaria elongata var. 'Pink Nymph'

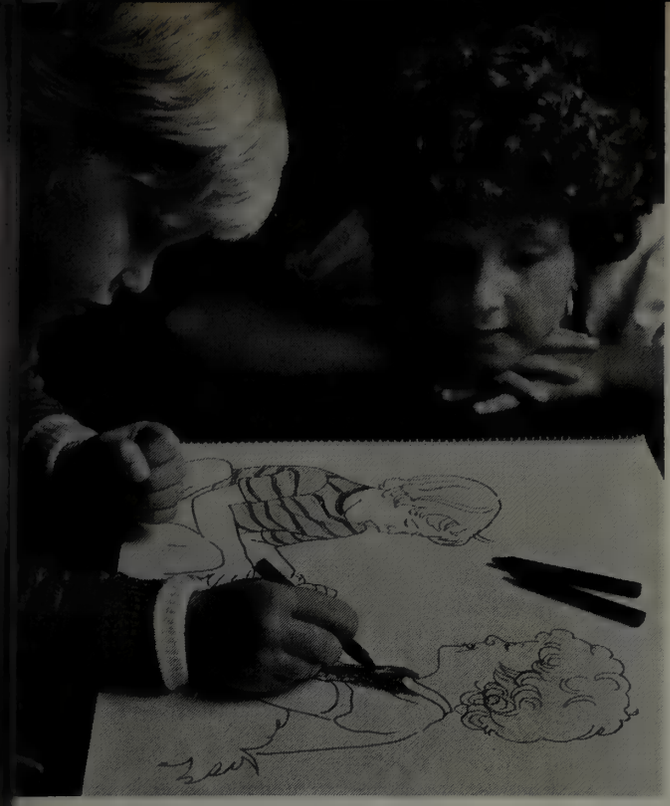
She's tracing *life-size projection of her brother with a wide felt-tip pen. His friend and the basketball court will be left out of her drawing*



He's delighted *with his personal poster. Some of the spaces were colored in, others were left open for line emphasis*

Slides into posters

Or into coloring books, paper dolls, portraits. In our experiments we had teen-agers and even an 8-year-old, all without especially notable art skills, doing very creditable work



Coloring book *where they're the stars was made from slides taken during the family's summer vacation. A family friend did the outlining in about 15 minutes*

DARROW M. WATT

Dressing *her look-alike paper doll with clothes she made is pure pleasure. Image was projected onto railroad board, traced, and cut out with scissors*

you've wanted to draw someone's por-it and were frustrated by the difficulty, re's a technique you'll appreciate. You rt with a slide, project it to the size u want, then do some simple tracing get a picture that will make you proud. ere we show four ways to use this tech-ique for one-of-a-kind gifts: a life-size ster, a coloring book, a paper doll, d a group portrait made from sepa-e slides.

make the poster, tape butcher paper, wsprint roll ends, or a wide piece of apping paper to the wall. Project a de onto the paper and trace the main tlines with a waterproof felt-tip pen. cial features are the only tricky part— fewer lines than you think you'll ed. You can fill in some of the sections th colored pens, but the modernistic e quality is something you might want preserve.

loring books that capture personal periences will charm people of all ages. st summer's river trip, a ski lesson, birthday party or family reunion are themes that would translate well from des to drawings. Prop a large art pad ainst the wall, then project and trace, minating extraneous details. Older ldren may enjoy doing this for unger ones. Even 8-year-olds can do a editable job with a little care.

The paper doll begins the same way as the coloring book, but you use stiff paper and cut around the edges. (Choose a slide that delineates the whole body.) Along with the doll, include a pack of colored paper so the child can make clothes.

The fourth example, a group portrait, takes more artistic skill. If you've done a little sketching you may get quite professional-looking results. The portrait shown combined four slides of individual children, projected consecutively and grouped so that head sizes were similar. It was done in pencil, shaded with pale ink, and sprayed with a fixative before framing. Because you'll be including shadows, make sure that the light direction isn't widely different in each slide, or else adjust shadows accordingly. Better yet, work from a group photograph. □

Four slides *were combined for one portrait. This penciled look requires a little sketching expertise*

Hundreds of Ideas in this Issue, $1.75

Ideas can be more important than money

The right idea can be worth hundreds, or thousands, of dollars when you fix up your home. But it doesn't have to cost you very much.

The trick is finding one that is fresh and exciting—and one that works.

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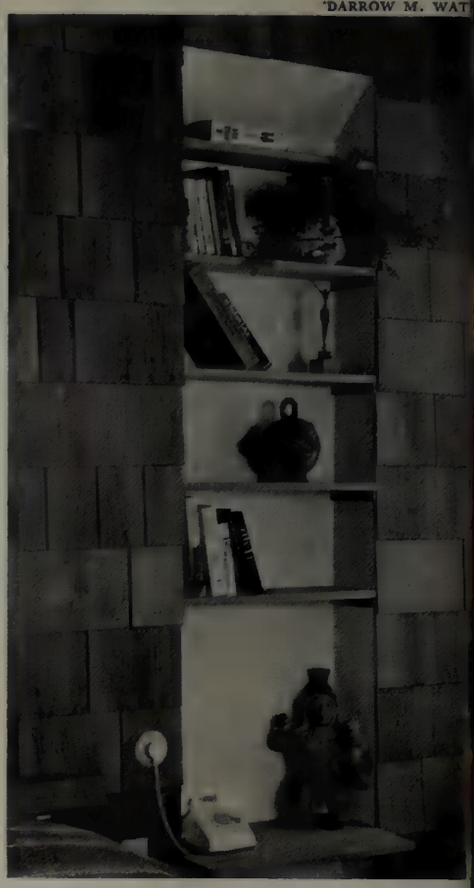
DARROW M. WAT



By popping out *the bedroom wall, they made room for shelves to hold books, art, planter, telephone*

Shelf space where there wasn't

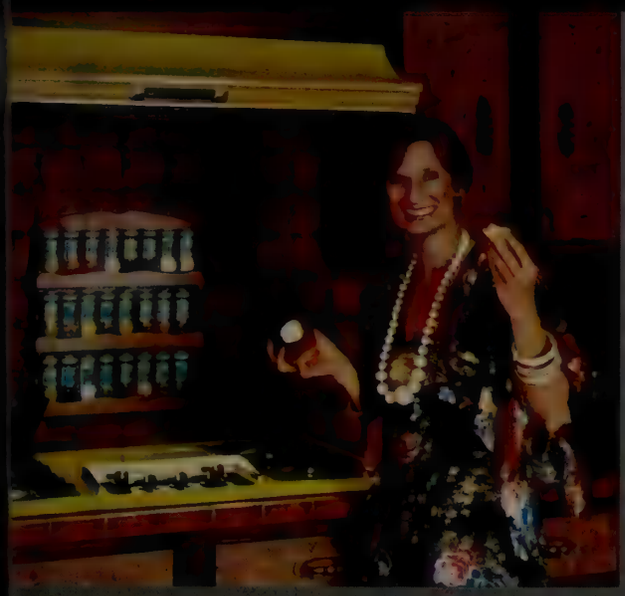
At first glance, this looks like a simp display unit built into the space betwee studs in a wall. But it's more than that.

Architect Jim Pandolfi of Los Gato California, created the shelf space b popping out part of an exterior be room wall about 6 inches. He remove one stud from the wall, bridged the ga with 4-by-4 headers at top and bottor and established the 22-inch width of th display space by nailing in a short stu between the headers. He extended th opening outward with 2 by 4's and co ered the exterior with plywood an shingles.

That gave Pandolfi a space 7½ feet hig and about 8 inches deep. He lined it wi gypsum board, painted white. Sma strips of scrap redwood nailed into th sides support the ¾-inch redwoo shelves. The shelf holding the telepho cantilevers out about 4 inches to ma a 12 by 22-inch platform for the tel phone and an earthenware figure.

The pitch of the small exterior ro necessitated by the wall extensi matches that of the main roof. In t photograph you can see this angle in t slanted "ceiling" over the top shelf.

loris Leachman picks energy-saving G & S gas appliances



'm very concerned about our nation's natural re-
ources," said Academy and Emmy Award winner,
loris Leachman. "That's why I chose energy-saving
quipment in remodeling my home."

s. Leachman chose a true "double feature" energy-
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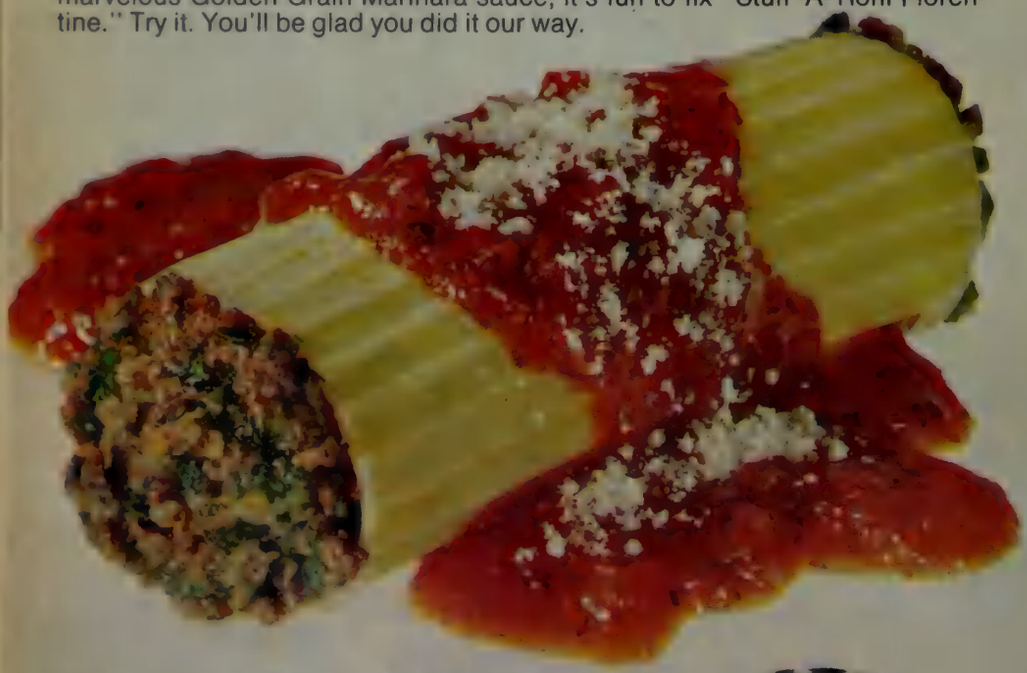
Easy stuff.

Now a great Italian recipe made easy. Nobody likes to stuff limp, cooked macaroni. That's why Golden Grain created Stuff-A-Roni. You fill it with good things before it's cooked—when it's firm, solid and easy to stuff. And, with marvelous Golden Grain Marinara sauce, it's fun to fix "Stuff-A-Roni Florentine." Try it. You'll be glad you did it our way.



Stuff-a-Roni Florentine

1 pkg. Golden Grain Stuff-A-Roni.
2 (15 oz.) cans Golden Grain Marinara Sauce.

Filling:

½ lb. ground beef
1 med. onion, minced
2 Tbsp. oil
1 cup soft bread crumbs
10 oz. pkg. spinach, thawed
2 Tbsp. grated Parmesan
3 eggs
1½ tsp. salt
¼ tsp. pepper

Cover bottom of oblong 2 qt. baking dish with 1 cup sauce. Brown beef and onion in oil; add remaining ingredients. Fill uncooked Stuff-A-Roni; arrange in single layer in baking dish. Pour remaining sauce with ½ cup water over top. Cover with foil; bake at 375°F., 1 hour.

THE GOLDEN GRAIN FAMILY OF FINE FOODS

DARROW M. WAT

Novel postcards *are made from pictures cut out and glued to stiff paper*

Old calendars as new cards or wrap

Calendars you've enjoyed through th old year needn't be tossed out. In mi utes you can convert them to eye-catc ing cards or gift wrap. If you like th results, ask your friends to give you the 1976 pictorial calendars.

To make cards, attach the pictures railroad board or other light cardboa with rubber cement. Cut around edg and use the back for writing. For gi wrap, cut out the pictures and use the as you would ordinary sheet or r wrapping paper.

Recycle *last year's calendar to make all-occasion wrapping paper*

SUNS

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COME IN AND DRIV

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And Audi's credentials are equally impressive.

You probably didn't know it, but Audi has a history that dates all the way

The 1977 AUDI

Get $5445* Audi Fox sedan with new aerodynamic front-end design and fuel-injected engine wh proper [illegible] from 0 to 50 in 8 [illegible] yet delivers EPA estimated [illegible] on the highway and 2 the city for standard shift models. Mileage may vary with driving, car's [illegible] equipme *Suggested 1977 retail price [illegible] transportation, local taxes, and dealer [illegible] additio Whitewalls optional.

NE OF OUR LEGENDS.

back to 1904 (that's before the Model T). A history that includes a succession of accomplishments on the track and on the road. (Would you believe back in the 30s we had such advanced features as front-wheel drive and dual braking systems?)

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PORSCHE
+AUDI

The 1977 PORSCHE

Our $[illegible]* Porsche Turbo Carrera. Not only the fastest production car Porsche ever built (0 to 60 in less than 6 seconds) but the most luxurious. Supple leather seats, deep-cut pile carpeting, automatic temperature control, even 4-speaker stereo). *Suggested 1977 retail price, P.O.E. Transportation, local taxes and dealer delivery charges additional.

Keeping track of tools . . . you make silhouettes

NORMAN A. PLA

Glue silhouettes *of tools to workshop wall to mark their places; or simply trace outline of tools directly onto the wall*

Especially when other members of the family are using your workbench tools, it's hard to keep them all orderly and accounted for. But if the tools can be matched to silhouettes on the wall, everyone can tell at a glance which tool goes where and exactly which ones are missing.

Probably the simplest way to make the silhouettes is to arrange and hang your tools in the most convenient order you can devise. Then trace around each directly onto the wall, using a broad-tipped felt pen. Take down the tools and carefully fill in the outlines.

A second method is to lay each tool on heavy white paper and trace around it. Then cut out the silhouettes and use white glue to attach them to the wall, as in the picture above.

A third method will work if you have access to a photographic darkroom: Lay each tool on print paper under the enlarger and turn on the light. When the exposed portions of the paper turn a rich black, turn off the enlarger light and develop the paper. Then cut out the r sulting photogram and glue it to the wa

In the last two methods, the glued-c silhouettes will last longer and are le likely to curl at the edges if you pai the entire board with a coat or two clear sealer before hanging the tools.

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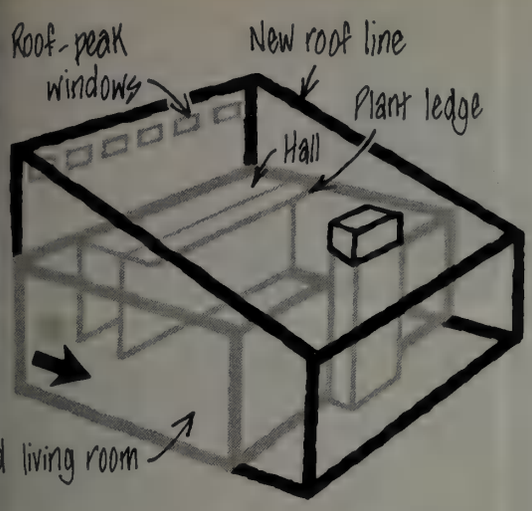
PETER O. WHITELEY
Mirrors on front *and sides of freestanding fireplace reduce its bulky effect; they reflect far side of room and view through new glass wall*

They raised high the roof beams, moved back a wall



Ladder leads *through removable plastic panel in hall (above) to allow access for watering loft plants (right)*

wo small windows on each side of the eplace didn't let in much light. And om and Carolyn Reese wanted a larger, ore contemporary living room.

esigner Bob Davis had an answer. He oved one wall out 4 feet into the patio ea, then lofted a new, sloped roof over e living room and the hallway beyond.

o flood the room with light, the new all is all glass. Windows beneath the roof peak give additional light, and translucent panels atop the hallway let the windowless corridor share the new living room brightness.

The fireplace was left in place to save expense. Now freestanding, it's covered with mirrors on three sides to reduce its massive feeling and to bounce the light. The chimney was extended to clear the new roof line. □

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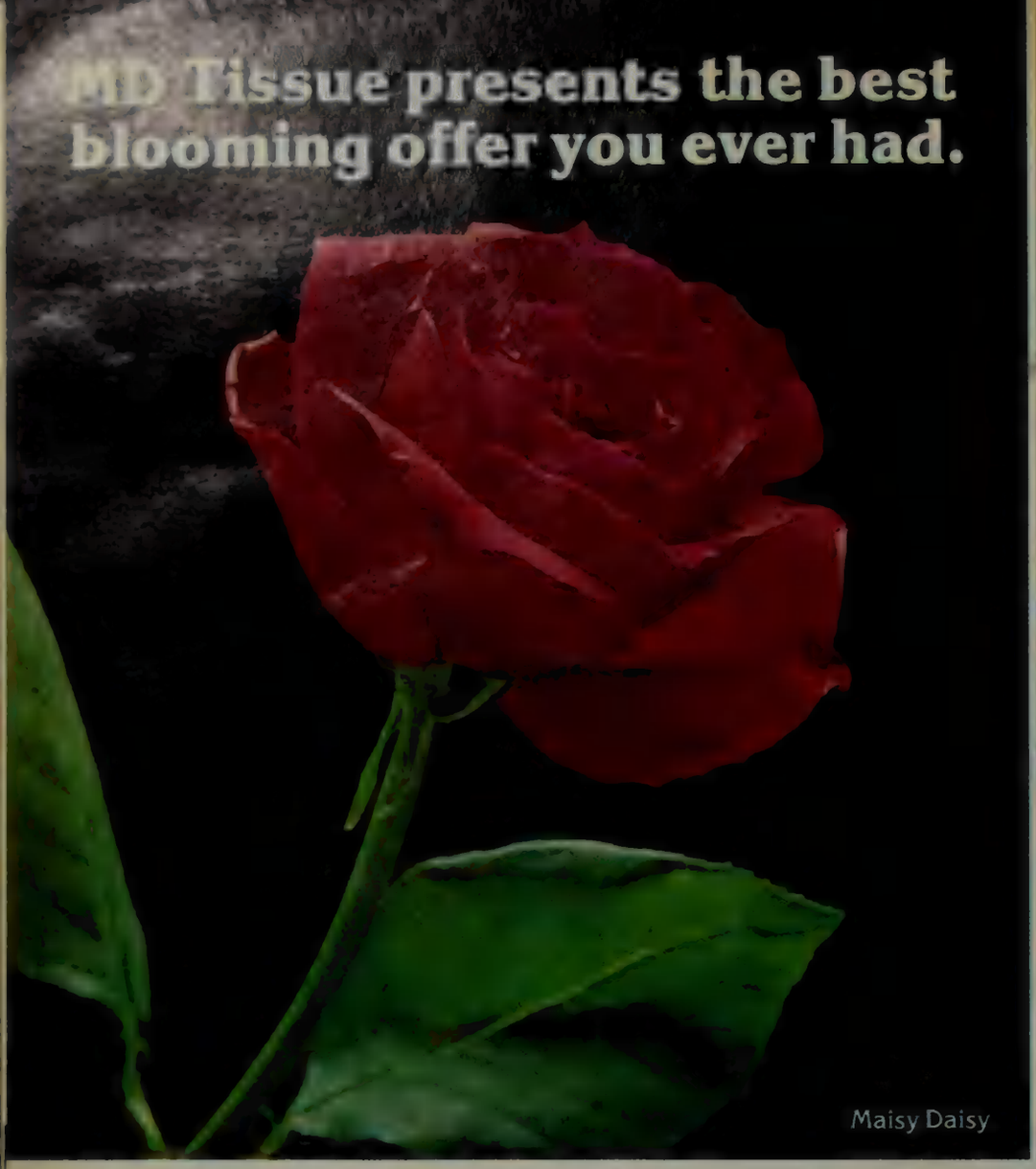

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Everblooming Floribunda rose with clusters of bright coral blooms.
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Enclosed is $_____ and the correct number of proofs of purchase from MD Bath Tissue. Price includes postage and handling. If I am not fully satisfied, I may return the order within 10 days and my money will be refunded. Enclosed is_____check_____money order.
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Offer good only in U.S.A. and limited to available rosebushes. Offer expires April 30, 1977. You will be notified within 30 days of when to expect your roses. Washington residents add 5% sales tax.

Remembrance of things past . . . this bathroom has moved back to 1910

AL JAMIESON

Before. *It was a typical 1950s bath, adequate but undistinguished. Built-in tub and basin, wall-to-wall carpet, metal cabinet, and floral wallpaper were removed; window wall was pushed out 5 feet*

NORMAN A. PLATE

Redwood walls *show off brass plumbing and accessories; medicine cabinet came from wrecked San Francisco hotel*

Plenty of style *and room for free-standing elements are in "backwards" remodel. Stained glass came from a razed church*

Remodeling backwards—making a room look older rather than newer—transformed a dull bath into a handsome return to 1910.

Owner Al Jamieson of Berkeley wrote us: "I saw an article in your magazine on how home owners had converted two pre-1920 bathrooms into modern ones with vanities, built-in tubs, and indirect lighting. I sort of liked the old-fashioned bathrooms, and since my wife and I are into antiques anyway, we decided we would do just the opposite."

The Jamiesons began scouting flea markets and salvage companies for unusual old pieces, especially a claw-foot tub—"the kind you can fill with water and get into up to your chin." The fixtures they wanted wouldn't fit into their 5 by 7-foot efficiency bath, so they knocked out an outside wall to double the area, then covered the floors with hexagonal tiles and the walls with tongue-and-groove redwood.

After a year of collecting and building, they came up with the look they wanted: brass lights ($15), an old lever-flush Peerless toilet ($50), china pedestal sink ($65), and claw-foot tub ($25).

The owners had the brass plumbing, faucets, switch plates, and towel bars stripped of their original chrome cover, then polished and lacquered (see Plating in the yellow pages). The iron claw feet on the tub were dipped in brass ($8 per foot) and lacquered. □

The legend continues...

Mercedes-Benz presents a

Announcing an important new design from Mercedes-Benz. Sleek. Lean. With nimble handling. Ample space for five adults. Dozens of ingenious safety provisions. And fuel-injected power plants. The new Mercedes-Benz: Engineered like no other car in the world.

The new Mercedes-Benz required a full eight years to perfect. That may seem an almost leisurely pace.

However, when you come to understand the importance of this new Mercedes-Benz design, and the significance of its many engineering innovations, you'll see that it couldn't have been produced any faster.

New suspension

The design concept of the new Mercedes-Benz represents an exquisite balance among the needs for occupant protection, refined handling characteristics, and driver comfort. Maximizing each of these qualities required particular engineering finesse.

Perhaps the major achievement is the new front suspension. It is a simplified and strengthened front-end construction, buttressed with special gas-pressurized shock absorbers. It helps the new Mercedes-Benz deliver precise steering with instant response, virtually no lean in braking or cornering—and straight-line control on even the roughest roads. What's more, the lubricated-for-life ball joints are completely maintenance free.

There are dual-circuit power disc brakes on all four wheels—just as there have been on all Mercedes-Benz automobiles since 1968.

The look of the future

This new design is a fresh look for Mercedes-Benz. Closer to the road

Three distinctive models. Each one is fuel injected. One of them will meet your precise driving requirements.

240D	300D	280E
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• Displacement—146.7 cu. in.	• Displacement—183.4 cu. in.	• Displacement—167.6 cu. in.
• Fuel/Fuel System—Diesel #2, mechanical fuel injection	• Fuel/Fuel System—Diesel #2, mechanical fuel injection	• Breakerless, transistorized ignition system
• Manual Transmission—4-speed, fully synchronized	• Automatic Transmission—4-speed, torque converter	• Automatic Transmission—4-speed, torque converter
• Curb Weight—3210 lbs.	• Curb Weight—3515 lbs.	• Curb Weight—3530 lbs.
• Overall Height—56.6"	• Overall Height—56.6"	• Overall Height—56.6"
• Overall Length—190.9"	• Overall Length—190.9"	• Overall Length—190.9"
• Turning Circle—37'	• Turning Circle—37'	• Turning Circle—37'
• Trunk Capacity—17.7 cu. ft.	• Trunk Capacity—17.7 cu. ft.	• Trunk Capacity—17.7 cu. ft.
• Passengers—5	• Passengers—5	• Passengers—5
• Wheelbase—110"	• Wheelbase—110"	• Wheelbase—110"

ngular new achievement.

ightly wider. Clean-limbed. The new fect is subtle but undeniable.

Inside, there's new luxuriousness, ith ample front and rear legroom and eadroom. And the trunk offers 17.7 ıbic feet of usable space.

A perceptive observer may notice ıat all the frame members supporting ıe roof seem more slender than in pre- ous Mercedes-Benz models. Actu- ly, these crucial safety members have een strongly reinforced. And their im shape contributes to driver visibil- y. Another visibility aid: a total of 7.3 square feet of tinted glass.

The passenger compartment is a eel shell surrounded by lateral- ıpact-resistant elements, with crush- ıle safety zones in front and rear.

The front safety zones are now creased for even more precisely defined deformation should an accident occur.

The rear crush path has been lengthened by moving the gas tank forward to a protected position above the rear axle.

And in front, the steering mechanism is positioned well behind the front wheels to protect it in a collision.

The aesthetics of safety

Study the dashboard's well-thought-through details and take pleasure in them. The sense of stark elegance. The intelligent arrangement of switches and controls. The impressively sized steering wheel with a built-in safety chest pad. Anatomically designed seats. Impact-resistant handles on all doors.

Fore and aft, a new type of energy-absorbing bumper flows smoothly into the car's silhouette.

The new Mercedes-Benz is, quite possibly, a masterpiece. A cursory look will indicate that. But only when you take the wheel will you recognize the significant difference between this and all other cars. Arrange a drive with your authorized Mercedes-Benz Dealer. Then you'll agree: the legend continues.

Mercedes-Benz

Engineered like no other car in the world.

©Mercedes-Benz, 1976

Glass screen *permits close control of fire-feeding air, but blocks some of the fire's radiated heat*

In an existing fireplace with a strong draft, add a tempered glass screen with controlled air intake. This will reduce the heat radiated into the room but will cause the fire to burn more slowly, sucking less heated air up the chimney. The custom one pictured at left above costs about $165 installed.

DON NORMARK

Heat circulating fireplace: *Warmed air rises from slots above firebox. Owners: Lloyd and Aphra Roberts, near Warrington, Washington*

NORMAN A. PLATE

Electric fan *(left) blows air through hollow grate device, claiming heat that would otherwise go up the chimney. Owner: Jane Way, Sutter Creek, California*

Another possibility is to buy one of several types of heat-collecting devices that circulate room air through a closed manifold system in the firebox, then expel the heated air back into the room. These operate by simple convection ($60 to $95) or more efficiently if fan-driven (about $50 more).

If you're building a fireplace from scratch, a heat-circulating firebox will help make your hearth a better heat source; air is heated in a metal chamber behind, beside, or above the firebox, and

What can you do to make your fireplace more heat efficient?

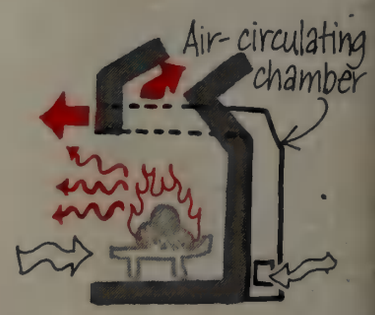
A roaring blaze in your fireplace does add charm and a feeling of warmth to a room, but there is some question as to how much heat a conventional fireplace actually contributes. In some cases it may even pull heat out of a room.

Let's see how this negative heat theory works: Heated air above the fire goes up the chimney. This causes a draft that sucks in heated room air, which is replaced by cold air drawn into the house through cracks around doors and windows. Almost all the hot air produced by the fire goes up the chimney, and the only heat enjoyed in the room is the heat radiated by the fire itself.

Here are some ways to improve the heat-producing efficiency of fireplaces. Some can be adapted to existing fireplaces at modest to moderate cost. For suppliers of this equipment, look in the yellow pages under Fireplaces or check magazine advertisements.

If you need an efficient heat-producer, consider some type of airtight freestanding wood heater with a tempered glass door. Or specify a metal fireplace with a hood that will increase the amount of radiated heat the fire contributes, and possibly a heat-circulating firebox (see sketch at right).

If you already have a conventional fireplace, consider adding a special grate designed to position logs for optimum radiation. One kind has an upper arm that opens up the core of the fire to direct more heat into the room; it costs about $30.



then released back into the room through other vents. (These too, can be fan-driven or operate by convection.) This system does nothing to slow the movement of room air up the chimney or improve radiation, so the addition of a glass screen and an optimum radiation grate should result in a rather heat-efficient fireplace.

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GREEN CHILE
GRILLED CHEESE SANDWICH

- 3 tbs. softened butter or margarine
- 8 slices white bread
- 8 slices American cheese
- 1 4 oz. can Ortega Whole Green Chiles

Butter one side of four slices of bread. On unbuttered side, place one cheese slice, one whole chile which has been slit, seeded and opened flat, then another cheese slice. Top with remaining slice of bread. Butter top of bread. Grill sandwiches on both sides over medium heat until golden. Serve at once. Serves 4.

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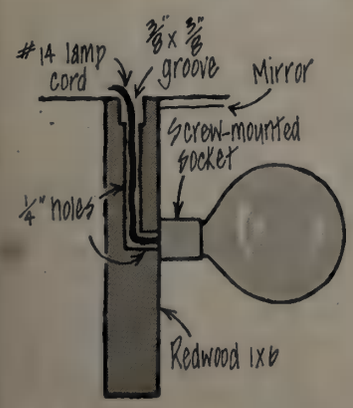
NORMAN A. PLATE

eatrical lighting *makes grooming ores easier. Dadoed and glued shelves l storage and display space*

Shelf-wall with make-up lights

ter squinting for months at a small rror under a single light, Larry and sabeth Christiensen of Phoenix de-ned and built this redwood shelf-wall nplete with theatrical make-up lights, vel bars, mirrored cabinet, and storage ace. The 1-by-6 shelves frame the sink, w mirror, small cabinet, and toilet low the towel bars).

the drawing below you see a top view how the shelving was grooved with a le saw and drilled to hide the wiring the eight screw-mounted porcelain kets (also called sign sockets). These re wired to the old vanity light; the itch is on the opposite wall. The 1 by and 1-inch towel bars were stained, n coated with polyurethane. □



Top view: *Drilled holes (from back edge and side) and grooved channel along back hide the wiring inside the 1 by 6*

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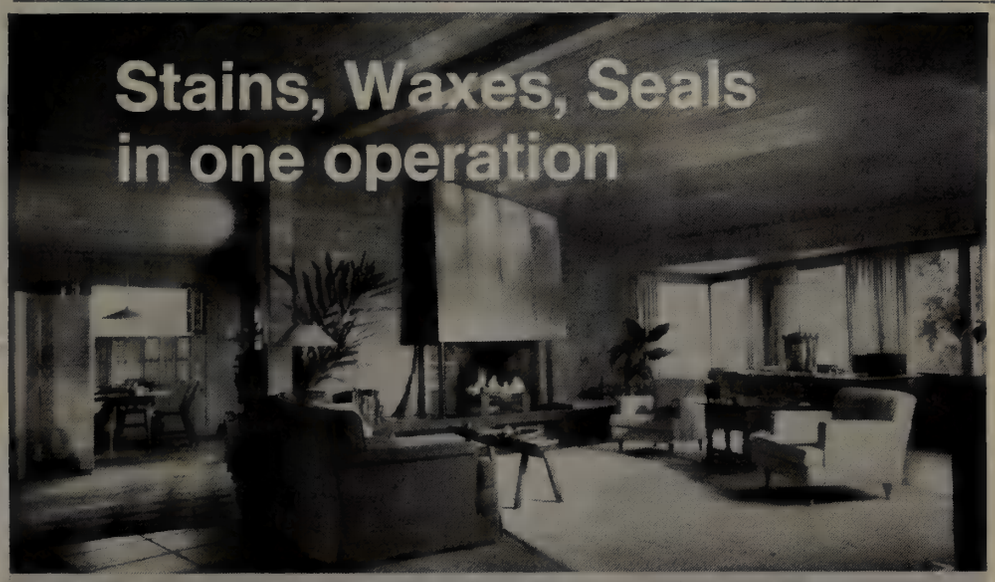

California Home; Designer: Russell Forester, LaJolla, Cal.; Cabot's Stain Wax on woodwork

Cabot's STAIN WAX

Time was when wood finishing was a long, arduous task. Today, Cabot's Stain Wax does the job in a single application. This unique "three-in-one" finish (suitable for all interior paneling, beams, etc.) brings out the best in wood, enhancing the grain and producing a soft, satin finish in your choice of sixteen colors. When a flat finish is desired, use Cabot's Interior Stains.

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1· *Buy contact paper, vinyl letters, paint*

2· *Press down cutout contact paper stencil, then press vinyl letters in place*

3· *Fill in background using fabric paint*

4· *Peel off contact paper and vinyl letters when paint is dry. Apron is ready to wear*

DARROW M. W

Butcher and carpenter aprons *were the inspiration for these renditions. You can add your own design to any large, plain apron*

Work aprons as gifts. They are "personalized"

Personalized with bold graphic designs, these aprons are a way of complimenting friends who have special hobbies or talents. Honoring Mom for her great pies, Sam for his woodworking, or Pat for her pottery will let them know you acknowledge their triumphs.

Start with aprons you've made, or purchase them from kitchen or uniform-supply stores, or, for a large workman's apron, try hardware or feed stores. Prices we checked for a variety of aprons ranged from $2.25 to $4.50.

For the design, you'll need plain adhesive-backed contact paper (like that used for lining shelves and available in most grocery stores) and several items sold by art supply or stationery stores: a compass; a thin-bladed stencil knife; a set (about $1.30) of 1 to 2-inch pressure-sensitive vinyl alphabet letters (this is enough for two or three aprons); permanent fabric paint (available in several brands and colors, in separate jars or kits); and a stiff paintbrush like that used for oil paints.

Making the design

Choose simple, bold designs such as a heart, or an outline of a tool, a kitchen implement, a flower, or a vegetable. Cut a square or rectangle of contact paper large enough to leave a generous border to work with around your intended design. Draw or trace the design directly on the contact paper; or draw it on a sheet of plain paper, then hold the contact paper over that, against a bright light or window, and trace the desi Use a compass or trace around a pl or bowl for round designs, a ruler straight lines.

With the stencil knife, cut the desi from the contact paper and peel off adhesive-backed top layer. Carefu position it on the apron and firmly pr down all surfaces. Next, to add yo personalized statement, peel whate vinyl letters you need from their ba ing, one by one; space them evenly the apron, then firmly press into place.

Painting the design

Lay the apron on several thicknesses newspaper to protect your surface fr paint. For the best effect, use paints strength and work them well into fabric. Use a stiff brush and begin pa ing over areas covered by contact pa and letters—brushing toward the posed fabric to avoid forcing paint un edges. Let paint dry; then carefully p off paper and letters.

Aprons were designed by Edena Sl don of Santa Monica, California.

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Sunset's Kitchen Cabinet®

Some recipes are just naturally versatile—meaning that they can do double duty by easily fitting into various parts of a menu. For instance, our first recipe, a tropical fruit combination straight from the islands can be served as a salad or dessert.

Equally adaptable is our sesame a bacon - flavored cabbage and ch dish. Let it be a vegetable side d or an unusual hot salad. And wh you've likely enjoyed baked app

Mint-yogurt dressing tops this medley of pineapple, papaya, orange, banana

Hawaiian Fruit Delight

The fresh pineapple shells make attractive containers for this mixture.

- 1 small (about 3½ lbs.) ripe pineapple
- 1 large papaya, peeled
- 1 orange
- ¼ cup chopped dates
- ¾ cup unflavored yogurt
- 1 tablespoon honey
- 1 tablespoon chopped fresh or crumbled dry mint
- 2 bananas, peeled
- ¼ cup chopped macadamia or other nuts
- ¼ cup shredded coconut

Cut pineapple in half lengthwise through crown. With a small sharp knife, cut fruit out of shells. Trim away core, then cut fruit into bite-sized chunks. Cut papaya in half a scoop out seeds, saving 1 tablespo seeds for dressing, if desired; cut paya into bite-sized sections. Cut peel and white membrane off oran lift out sections. Combine cut fr and dates in a bowl; cover and c up to 4 hours. Also chill pineap shells. Mash papaya seeds if us mix with the yogurt, honey, and m Cover and chill.

To serve, slice bananas and mix w other cut fruit; pile into pineap shells; sprinkle with the nuts coconut. Pass the dressing. Serve to 8.—*H. R., Koloa, Hawaii.*

Almost a meal in itself: large bowl of minestrone served with bread and butter

Meatball Minestrone

This hearty soup is a good choice for a busy day. It tastes as if it takes hours, not minutes, to make.

- Spinach meatballs (directions follow)
- 1 large onion, chopped
- 7 cups water
- 7 beef bouillon cubes
- 1 can (about 1 lb.) stewed tomatoes
- 1 can (1 lb.) kidney beans
- ½ teaspoon *each* dry oregano and basil leaves
- 1 cup *each* sliced carrots and celery
- 1 cup elbow or bow-shaped macaroni (uncooked)

In a Dutch oven, brown meatballs over medium heat; remove from pan as browned.

Add the onion and sauté until limp. Stir in water, bouillon cubes, tor toes, beans and their liquid, orega and basil; cover and simmer 10 m utes. Add carrots and celery; co and simmer 10 minutes. Stir in ma roni; cover and simmer until ten about 10 minutes. Return meatb to soup and heat through; skim Serves 6.—*H. N., San Francisco.*

Spinach meatballs. Squeeze liq from 1 package (10 oz.) fro chopped spinach, thawed; mix w 1½ pounds lean ground beef, ⅓ fine dry bread crumbs, 1 egg, 1 spoon salt, and ¼ teaspoon pep Shape into 1-inch balls.

Roll out yeast dough, then cut it in rounds using a floured biscuit cutter

Raised Whole Wheat Biscuit-buns

Serve these warm or split and toasted; spread them with butter, jam, or peanut butter.

- 2 packages active dry yeast
- 2 cups warm water (about 110°)
- ½ cup soy oil or salad oil
- ¼ cup *each* molasses and honey
- 1 tablespoon salt
- ¼ cup *each* sesame seed, hulled sunflower seeds, and wheat germ
- About 6½ cups whole wheat flour, unsifted

In a bowl, dissolve yeast in ½ cup of the water. Add oil, molasses, honey, salt, sesame seed, sunflower seeds, wheat germ, and 4 cups of the flour. Stir in remaining 1½ cups water. Mix in enough of remaining fl (about 2 cups) to form a stiff dou Turn out onto a floured board; kn until no longer sticky, about 15 m utes. Turn dough over in a grea bowl; cover; let rise in a warm pl until doubled, about 1½ hours.

Punch down dough and knead ligh Roll out ½ inch thick on a flou board. Cut with a floured 2-inch cuit cutter. Place on greased bak sheets; cover and let rise until puffy, about 40 minutes. Bake i 375° oven for 20 minutes or u golden. Makes about 4 dozen *G. W., San Luis Obispo, Calif.*

dessert, try our granola-stuffed ion as a warm breakfast fruit.

share your favorite versatile reci- mail contributions to *Sunset gazine*, Menlo Park, Calif. 94025. pay $10 for each recipe published.

Hawaiian salad or dessert, baked apple for breakfast or dessert, a quick minestrone

fy Chile Relleno Casserole

u can control the hotness of this e-ahead casserole by the number hiles you add.

- 2 or 3 cans (7 oz. *each*) whole California green chiles
- 4 corn tortillas, cut in wide strips
- 1 pound jack cheese, shredded
- 1 large tomato, sliced and seeded
- 8 eggs
- ½ cup milk
- ½ teaspoon *each* salt, pepper, ground cumin, and garlic powder
- ¼ teaspoon onion salt
- Paprika

nove seeds from chiles, if desired. half the chiles in the bottom of a l-greased 9-inch square baking . Top with half the tortilla strips and half the cheese. Arrange tomato slices on top. Repeat layers, using up the remaining chiles, tortillas, and cheese.

Beat together the eggs, milk, salt, pepper, cumin, garlic powder, and onion salt; pour evenly over casserole. Sprinkle lightly with paprika; cover and chill if made ahead.

Bake, uncovered, in a 350° oven for about 40 minutes (allow 1 hour if cold) or until puffy and set in center. Let stand about 10 minutes before cutting into squares for serving. Makes 6 to 8 servings.—*J. S., O'Neals, Calif.*

Soufflé-like casserole has layers of hot chiles, tortillas, cheese, and tomato

rd and Cabbage Stir-fry

e all the ingredients for this vege- e dish ready before you start to k; it goes together quickly.

- 1 small head (about 1¼ lbs.) cabbage
- 1 bunch (about 1¼ lbs.) Swiss chard
- 2 tablespoons sesame seed
- 3 slices bacon
- 1 large onion, sliced
- 1 clove garlic, minced or pressed
- 1 tablespoon *each* soy sauce and water

d cabbage with a knife; you'll about 5 cups. Wash chard; cut e center stalks from leafy green s. Thinly slice stalks, then slice y parts; keep separate.

wok or wide frying pan, toast sesame seed over medium heat, stirring constantly; remove from pan. Add bacon and cook until crisp; then drain, crumble, and set aside.

Leave 1 tablespoon bacon drippings in pan; set rest aside. Turn heat to high and add the onion; stir-fry 2 minutes. Add cabbage and chard stalks; stir-fry 4 minutes, adding more drippings if needed. Combine garlic, soy, and water. Add to pan along with chard leaves; stir-fry about 2 minutes longer or until wilted.

Turn into a serving dish; sprinkle with bacon and sesame seed. Serves 6.—*C. K., Milwaukie, Ore.*

You'll need a wok or large frying pan to stir-fry the shredded cabbage and chard

ey Crunch Baked Apples

these baked apples, choose a l baking apple such as Rome ity, Pippin, or Golden Delicious.

- 6 large apples
- ⅓ cup *each* honey, granola-type cereal, and chopped dates
- cup chopped walnuts or almonds
- ½ teaspoon ground cinnamon
- ¼ teaspoon ground nutmeg
- 2 teaspoons lemon juice
- 3 tablespoons butter or margarine, melted
- ¾ cup apple juice or water
- Cream or ice cream

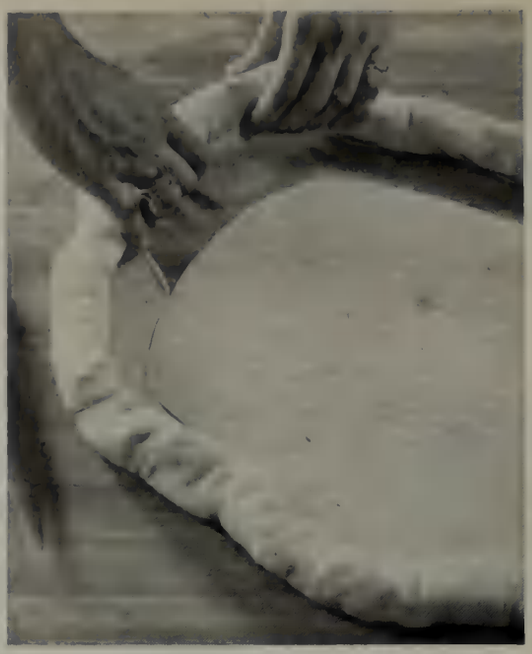
the apples, if desired, and core; d upright in a 9-inch square bak- dish. For the filling, mix 3 table- ns of the honey with all of the granola, dates, walnuts, cinnamon, nutmeg, and lemon juice. Divide filling equally and spoon into the center of each apple, packing it in lightly. Combine the remaining honey, the butter, and apple juice and pour it over the apples.

Cover and bake in a 350° oven for 30 minutes. Remove cover and bake, basting with pan juices several times, until apples are tender when pierced, about 35 minutes longer.

Lift from pan and serve warm or cooled. Pass cream or ice cream to top each apple. Makes 6 servings.—*L. F., Portland.* □

Warm or cool, top chewy granola-filled baked apples with cream or ice cream

1· *Place rope of filling on edge of thinly rolled dough circle and begin to roll dough toward center, encasing filling; pull and stretch dough as you make four to six turns*



2· *Cut away dough center, then pull and stretch cut edge up over filled roll; press gently to seal. Turn the roll seam-side-down*

3· *Separate into 1½ to 2-in pieces by pressing gen with edge of one hand you twist the filled r back and for*

Knishes . . . Pauline's way

It takes time but you get lots. The dough is strudel-like. The fillings are cheese or potato-onion

Plump pillows of pastry filled with a savory vegetable, cheese, or meat mixture are called knishes (you do pronounce the *k*). Every cook who makes this popular Jewish dish has thoughts on which kind of dough is best. Pauline Berlin, a frequent California visitor, showed us her way, using a strudel-like dough. It's elastic, easy to handle, and makes a tender, paper-thin wrapping for the knishes shown here.

Making knishes takes time, but each recipe produces a lot—some to enjoy now, the rest to freeze for later. You can make either filling a day or two ahead, then cover and refrigerate.

Potato-Onion Knishes

For the filling, finely chop 4 large onions. In a frying pan over medium heat, cook onions with ½ cup (¼ lb.) butter or margarine for about 45 minutes or until golden, stirring frequently.

Meanwhile, cook 3½ pounds of peeled baking potatoes in boiling water until tender, drain. Mash or beat until smooth. Add onions and any butter left in pan, and 2 tablespoons salad oil; mix well. Season with salt and pepper; cover and chill if made ahead.

For the dough, use an electric mixer to beat until smooth 1 egg, ¼ cup salad oil, ¾ cup water, 1 teaspoon vinegar, 2½ cups unsifted all-purpose flour. Wi a heavy-duty mixer or wooden spoo beat in enough additional flour (about ½ cup) to make dough smooth and satin Cover; let stand 15 minutes.

Pauline Berlin *whips potatoes for the knishes she taught us to make*

Divide dough in half. On a large floure surface, roll out one half, as thin as po sible, into about a 20-inch circle. Sha half the filling into a rope and place around dough circle, about 1 inch fro the edge. Roll dough over filling a shape as shown in steps 1 through Combine dough scraps with remainin dough and repeat, using remaining fillin

Place knishes on well-oiled baking shee if desired, cover and let stand at roo temperature up to 2 hours. Bake in a 42 oven, uncovered, until lightly browne about 20 minutes. Serve hot; or coo wrap, and freeze. To reheat, unwrap b do not thaw. Place in a 375° oven f 15 minutes or until hot throughou Makes about 4½ dozen.

Cheese Knishes

For the filling, finely chop 2 large onio cook in 4 tablespoons melted butter

4 • *Pinch ends of knishes together to seal; place on oiled baking sheets. Bake right away or let stand up to 2 hours*

5 • *Oven-hot knishes, with mashed potatoes and sautéed onions inside, make a homey side dish for a juicy roast. With a different filling they become an unusual dessert idea, as pictured below*

DARROW M. WATT

Dessert knishes, *filled with two kinds of mild-flavored, melting cheeses, are baked in lengths that fit on your baking sheets; pinch ends to seal. Bake, then while still hot cut in 2-inch pieces to eat with a sweet dark cherry sauce and topping of sour cream or yogurt*

margarine, over medium heat, until golden, stirring frequently. Beat smooth the onions, any butter in pan, 4 small packages (3 oz. *each*) cream cheese, and 2¼ pounds pot or farmer's cheese. Cover and chill if made ahead.

Prepare and roll out dough as for potato-onion knishes; enclose filling as shown in steps 1 and 2. Omit steps 3 and 4; instead cut the roll into about 12-inch lengths; pinch ends to seal. If desired, wrap and freeze (unbaked).

Place on well-oiled baking sheets (if frozen, unwrap but do not thaw). Bake in a 425° oven, uncovered, about 7 minutes or until hot throughout (allow 12 to 15 minutes if frozen). Cut into 2-inch lengths; serve hot with sweet cherry sauce and sour cream or yogurt. Makes about 4 dozen.

Sweet Cherry Sauce: Drain 1 can (1 lb.) pitted dark cherries, saving syrup. In a pan, combine cherry syrup and 1 tablespoon *each* cornstarch and sugar. Cook, stirring, until sauce boils and thickens. Let cool; stir in cherries. Cover and chill if made ahead. □

Wayne and Gene *roll cheese, frankfurters and sauerkraut in flour tortillas . . .*

DARROW M. WATT

. . . then proudly display their results—crisp sausage burritos for dinner

JANUARY MENUS

German-style burritos simple enough for young cooks, Dijon chicken for unexpected guests, ribs for a winter supper

You don't always need to spend a lot of time or effort in the kitchen to produce a delicious meal. This month's menus prove our theory—they demand little attention from the cook but taste good enough to be repeated time and time again.

First we offer a quick supper that young cooks will enjoy preparing for family or friends. It features burritos, German style. Crusty mustard chicken and cherry-glazed ribs are entrées for the other two menus, designed for family suppers or casual entertaining.

Young cook's special

This menu is easy enough for younger cooks to handle. For the main course, simply roll cheese, frankfurters, and sauerkraut in flour tortillas, then bake until hot and crisp. If you have time to make dessert, try the peanut-flav banana-cream pie.

Cherry Tomatoes
Carrot and Celery Sticks **Pickle**
Sausage Burritos
Peanut Banana Pie
Milk or Fruit Juice

Make the pie at least 3 hours before ner so it will be firm enough to s Also, take the tortillas out of the frigerator about 30 minutes before c ing so they will be easier to roll. W the burritos bake, you can prepare raw vegetables and garnish the pie whipped cream.

Sausage Burritos

- 1 small can (8 oz.) sauerkraut
- ½ teaspoon dill seed
- 2 cups shredded Cheddar or Swiss cheese
- 6 flour tortillas (at room temperature)
- 6 extra-long frankfurters or kielbasas
- Prepared mustard
- About 2 tablespoons melted butter or margarine

Place sauerkraut in a wire strainer, well with water, drain thoroughly, squeeze out any excess liquid. Mix sauerkraut with dill seed. For each rito, sprinkle ⅓ cup cheese over the tilla and place one frankfurter alon edge. Distribute 2 rounded tablesp of the sauerkraut mixture along fr furter, then drizzle with about ½ spoon mustard. Roll frankfurter u tortilla.

Place burritos, seam side down, at 1 inch apart on a shallow, rimmed ing pan. Brush each burrito genero with melted butter. Bake, uncovere a 400° oven until tortilla is crisp golden, about 20 to 25 minutes. extra mustard. Makes 6 burritos—*J. Loma Linda, Calif.*

Peanut Banana Pie

- 9-inch graham crust (recipe follows)
- 1 package (about 3 oz.) vanilla pudding and pie filling
- 2 cups milk
- ¼ cup crunch-style peanut butter
- 3 medium-sized bananas
- ⅔ cup whipping cream
- 1 tablespoon powdered sugar
- ½ cup finely chopped salted roasted peanuts

Prepare crust and let cool.

In a 1½ to 2-quart saucepan, stir gether pudding and milk. Add pe butter and cook, stirring, over med heat until it comes to a full bubl boil. Cool 5 minutes, stirring twice, and thinly slice bananas into piec Pour pudding over bananas. Cool, co and chill at least 3 hours before ser Shortly before serving, whip cream soft peaks form, fold in sugar and nuts; spread over pie. Makes 6 serv —*L. D., Tacoma.*

Graham crust. Stir together 1¼ graham cracker crumbs, ¼ cup sugar and melted butter or marga

s evenly over bottom and sides of a ch pie pan. Bake in a 375° oven until tly browned, about 8 minutes.

Dijon dinner

ause this meal goes together quickly requires few ingredients, it's a good ice for occasions when unexpected sts drop in. You can easily double chicken recipe, if needed.

Avocado Citrus Salad Plates
Dijon Chicken
Broccoli Spears
Hot Rolls Butter
Fruit Pastry or Cheesecake

le the chicken bakes, assemble the d, cook the broccoli, and warm the . For the salad, garnish a green salad citrus and avocado slices and water- s sprigs, then mix with an oil and gar dressing flavored with minced lots. Buy dessert from the bakery or zer case in your market, or make omemade version if time permits.

n Chicken

se and pat dry 1 large broiler-fryer ken (about 3½ lbs.), cut in serving- pieces. Brush with melted butter or garine (you'll need about 2 table- ns). Arrange in a single layer, skin down, on a rack in a large, shal- baking or broiler pan. Bake, uncov- in a 375° oven for 30 minutes.

nwhile, mix together ⅔ cup Dijon tard; 1 small onion, finely chopped; easpoon thyme leaves; and ¼ tea- n liquid hot pepper seasoning. After minutes' cooking, remove chicken oven, turn pieces over, and spread tard mixture on top. Return to oven continue baking for another 30 min- or until chicken is no longer pink n slashed near the bone. Makes 4 ings.—*R. W., Los Altos, Calif.*

Winter supper

Make the spicy cherry glaze for the pork ribs with cranberry, orange, or apple juice; the flavor and color varies slightly with your choice of juice.

Green Salad
Cherry Spareribs
Bulgur or Rice Pilaf
Buttered Green Beans
Ice Cream and Cookies

While the ribs bake, you have plenty of time to assemble the rest of the meal. Make your favorite green salad. For the pilaf, make your own or use a mix. Cook the green beans shortly before serving.

Cherry Spareribs

Cut 4 to 5 pounds spareribs in serving-size pieces; cut off excess fat. Lightly salt and pepper the spareribs. Place in a single layer in a large, shallow roasting pan. Cover with foil; bake in a 350° oven for 1½ hours.

In a saucepan, mix ⅓ cup firmly packed brown sugar and 2 tablespoons cornstarch. Add ½ teaspoon salt; ¼ teaspoon *each* ground cloves, cinnamon and ginger; ¼ teaspoon dry mustard; 1 clove garlic, minced or pressed; ¼ cup vinegar; and 1 cup cranberry, orange, or apple juice. Cook, stirring, until mixture boils and thickens. Stir in 1 can (1 lb.) sour pitted cherries (including liquid); cook, stirring, until cherries are heated.

After 1½ hours, remove ribs from pan. Discard drippings. Return meat to pan, pour over hot cherry sauce, and bake, uncovered, turning ribs once and basting frequently, until ribs are well glazed, 30 to 45 minutes. Place ribs on serving plate; skim off and discard any fat from remaining sauce and pour over ribs. Makes 4 or 5 servings.—*L. G., Bremerton, Wash.* □

erously spread *the chicken pieces with Dijon mustard onions, then bake for a crusty and pungent coating*

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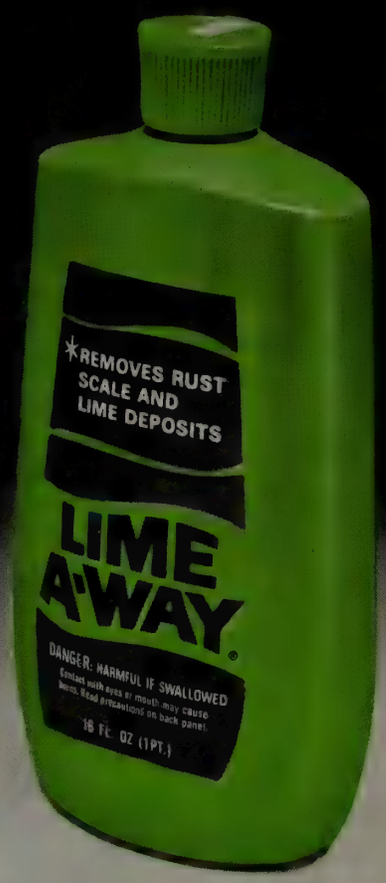

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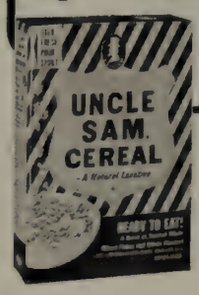

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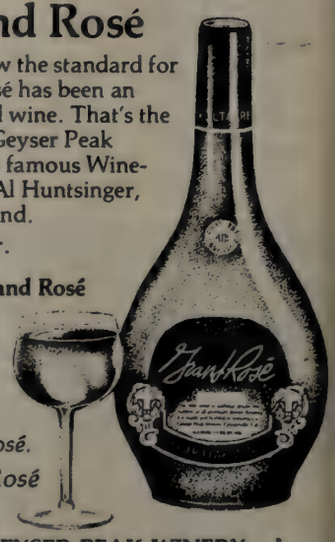

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Libyan Stew is a long story. It starts with the ancient Greeks sailing around bothering people

Libya has had its ups and downs. Back in the days when the Greeks were just rude boys with a knack for sailing around and attacking people, the Libyans were living in Fat City, basking on the shores of a large lake with the blue Mediterranean right behind them if they cared to turn around.

Then came the water shortage, the Phoenicians, Romans, and Arabs (in more or less that order), and the character of the country changed. The Libyans were reduced to piracy, and even that turned out badly when the U.S. Marines landed on the shores of Tripoli and made them stop. So there they were, with the worst climate in the world and no industry. Just sand and history.

But the sand is full of oil and ruins, so a new industry has arisen—digging. Among the diggers used to be Roy H. Behnke, Jr., of Santa Barbara, an anthropologist, who came away with potsherds, memories, and a stew recipe. The recipe calls for a couple of exotic ingredients that give it character: *ghee* and *hararaat*. Don't ask the grocer; you have to mak them both.

Libyan Stew

- 2 tablespoons *ghee* (recipe follows), or salad oil
- 2 green onions, including tops, thinly sliced
- 1 teaspoon turmeric
- ¼ teaspoon cayenne
- 1½ teaspoons salt
- 1½ pounds lean boneless lamb, cut into ½-inch cubes
- 1½ tablespoons tomato paste
- 1 cup chopped parsley
- 3 cups water
- ¼ cup rice
- *Hararaat* (recipe follows)
- 1 teaspoon crushed mint leaves or crumbled dry mint
- 2 tablespoons lemon juice

Heat *ghee* in a heavy 2-quart pan ov medium heat; add onion, turmeri cayenne, and salt. Cook until onion limp. Add meat, a few pieces at a tim and brown on all sides. Add tomato past parsley, and water; bring to a boil, the reduce heat, cover, and simmer 1 to 1½ hours or until meat is tender. Skim f and add rice; simmer, covered, 20 to 3 minutes or until rice is tender to bit Remove from heat, sprinkle on *hararaa* mint, and lemon juice; stir and serv Makes 4 to 6 servings.

Ghee (clarified butter). In a small pa heat 3 tablespoons butter over lowe heat until it melts and froth begins form. Remove from heat, skim carefull and pour clear portion into another co tainer, being careful not to add any sec ment. Refrigerate if made ahead.

Hararaat (seasonings). Mix ⅛ teaspoo ground cloves; ½ teaspoon *each* grour cinnamon, pepper, and ground ginge and 1 teaspoon ground coriander.

Santa Barbara

"I developed the following recipe out boredom," states James Speed Hensinge "My wife and I love liver, but we fir that most recipes are in the broiled-sho leather-and-bacon category or else th try to conceal the liver altogether. M recipe falls into neither group."

Our testers all agree, but in opposi ways. Some said, "Wow! My kind dish." Others said, "Yech! Not for me It probably depends on how you fe about green chiles.

Hígado Diablo

- 2 pounds beef liver, sliced ½ inch thick
- 3 tablespoons butter or margarine
- 1 can (4 oz.) California green chiles, seeded, and cut into strips
- 1½ cups mild Cheddar or jack cheese, shredded
- Catsup or chile sauce (optional)

Cut liver into serving-size pieces. He butter in a frying pan over medium-hi

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Flav-R-Pac's succulent Blue Lake green beans really snap with the addition of a little dill weed! Just take one 9 oz. package of our frozen beans and cook according to package directions, (or use a 15½ oz. can). In a small saucepan melt ¼ cup of butter or margarine and add ½ teaspoon of dill weed with ¼ cup of whole, salted cashews. Simmer on low heat for 5 to 7 minutes, then add to the cooked and drained green beans. Toss well and garnish with 1 tablespoon of diced pimiento. Serves four. (For our 20 oz. package of julienne green beans double all ingredients except the dill weed, which increases to ¾ of a teaspoon. The pimiento remains at 1 tablespoon).

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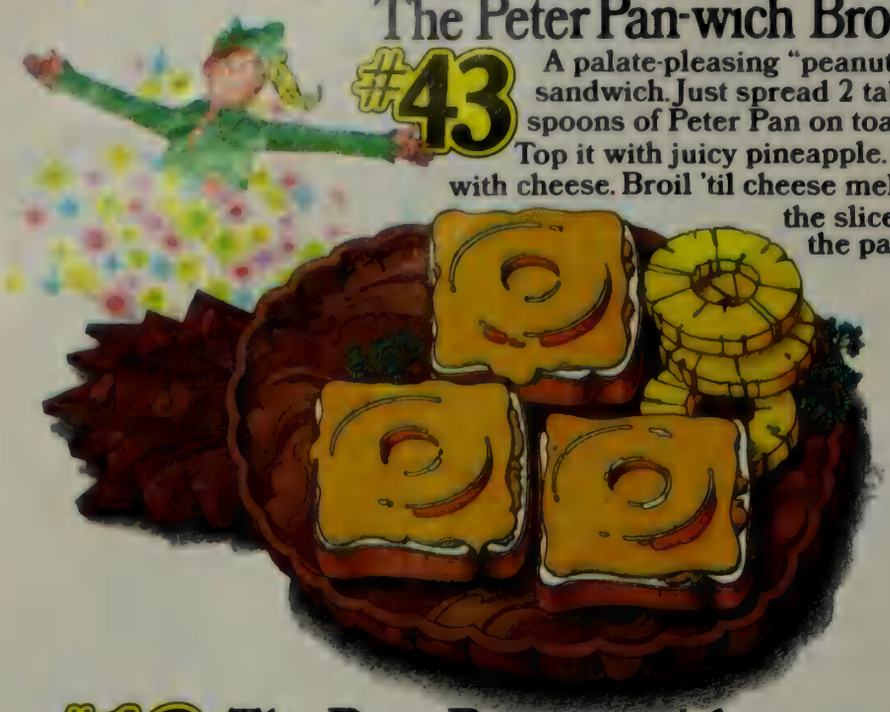
The Peter Pan-wich Broiler.



#43 A palate-pleasing "peanutty" sandwich. Just spread 2 tablespoons of Peter Pan on toast. Top it with juicy pineapple. Cover with cheese. Broil 'til cheese melts. It's the slice of the party.

#13 The Peter Pan-yogasicles.

Tasty licks on "peanutty" sticks. Mix 1 cup Peter Pan® Peanut Butter with 8 ozs. plain yogurt; blend in 1 cup milk. Add ¼ cup chocolate sauce or strawberries and ⅓ cup sugar. Mix well. Pour into 2½-inch paper cups. Place in muffin pan. Freeze about 1 hour. Insert sticks. Freeze solid. Then peel off paper and apply tongue. Serves 12.

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heat, add liver, and cook about 2 m utes on one side. Turn liver over a cover each piece with an equal share chile strips; top evenly with chee Cover pan and cook 2 to 3 minutes mo until cheese is melted and liver is cook to your liking. Offer catsup at the tab Makes about 6 servings.

Jan Graf Henning

Tucson

Noel Eberz gives us a quicky with intriguing flavor, hard to pin down. S food and chicken blend very nicely, anyone knows who has eaten paella, b the other ingredients in this dish gi the combination an unusual quality good but indescribable.

"Seafood and chicken blend nicely"

Manhattan Chicken

- 2 or 3 tablespoons butter or margarine
- 3 to 3½-pound broiler-fryer chicken, cut into serving pieces
- 1 cup sliced celery
- ¼ pound mushrooms, sliced
- ¾ cup chopped onion
- 1 can (10 oz.) condensed Manhattan-style clam chowder
- 1 can (10¾ oz.) condensed cream of mushroom soup
- ¼ cup dry Sherry
- Hot cooked rice

Melt 2 tablespoons butter in a lar frying pan over medium heat; a chicken, a few pieces at a time, a brown well on all sides; set the chick pieces aside. In same pan, cook cele mushrooms, and onion, adding mo butter if needed, until onion is lim Return chicken to pan and stir in cla chowder, mushroom soup, and Sherry. Cover and simmer 1 hour or until thi meat near bone is no longer pink wh slashed. Stir occasionally. Serve with ric Makes about 4 servings.

Noel G. Eberz

Cupertino, Calif.

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Now you can vary the classic cheesecake theme with the delicate sweet-tart flavor of apricots. This simple cheesecake recipe features a velvety-rich and apricot-tangy cream cheese filling with a crisp no-bake packaged Corn Flake Crumbs crust. Simply use Eagle® Brand Sweetened Condensed Milk, Kellogg's® Corn Flake Crumbs, canned California apricots and this recipe.

NO-BAKE APRICOT CHEESECAKE
(Makes one 9-inch cake)

NO-BAKE CRUST:
1/2 cup butter or margarine
1/3 cup sugar
1-1/2 cups Kellogg's® Corn Flake Crumbs
Cook butter and sugar in small saucepan until mixture boils; remove from heat. Mix in Corn Flake Crumbs. Reserve 2 tablespoons mixture for garnish; press remainder in bottom of 9-inch springform pan. Chill.

VELVETY CREAM CHEESE FILLING:
1 can (30 oz.) apricot halves, drained (reserve syrup)
1 envelope unflavored gelatin
2 pkg. (8 oz. each) cream cheese, softened
1 can (14 oz.) Eagle® Brand Sweetened Condensed Milk
2 tablespoons lemon juice
1 container (4-1/2 oz.) frozen non-dairy whipped topping, thawed
Combine 1/2 cup reserved syrup and gelatin; stir over low heat until gelatin dissolves. Reserve 4 or 5 apricot halves for garnish; blend remaining apricots on high speed in blender until smooth. Combine apricot and gelatin mixtures; set aside. In large bowl, beat cheese until smooth. Add sweetened condensed milk and lemon juice; mix well. Stir in apricot-gelatin mixture. Fold in whipped topping. Turn into prepared pan. To garnish: slice reserved apricot halves into pieces; arrange in two-piece clusters around top of cheesecake. Spoon apricot glaze over top of cake. Add mint leaves to clusters. Sprinkle crumbs around outer edge of cake. Chill 3 hours.

EASY APRICOT GLAZE: (optional)
1/2 cup reserved syrup
1 teaspoon cornstarch
Cook and stir cornstarch and 1/2 cup reserved syrup until thick and clear. Cool. Spoon glaze evenly over top of cake.

For other delectable recipes, write:
California Apricot Advisory Board,
1295 Boulevard Way, Walnut Creek, CA 94595.

DARROW M. W

Crunchy granola *and nuts, bound with honey and butter, make chewy candy*

Granola bars for their lunch

These three lunchbox treats have flavor and texture of granola. Two chewy candy bars; the third is a cakel bar cooky. Choose a loose-textu granola-type cereal to make them, a break up large lumps before measuri

Granola Candy Bars

In a 3-quart or larger pan, melt ¾ c butter or margarine over low heat. H move from heat and add ½ cup *ea* firmly packed brown sugar and hon 1 teaspoon vanilla, and ½ teaspoon sa stir until blended. Stir in 4½ cu granola-type cereal; add ⅔ cup chopp nuts or unsweetened shredded cocon or sunflower seeds. Turn into a we greased 10 by 15-inch baking pan. W your hands, press in firmly to form even layer. Bake, uncovered, in a 40 oven until browned and bubbly, abo 15 to 20 minutes. Cool completely. C in bars. Makes about 32.

Granola Peanut Bars. Follow the reci above for Granola Candy Bars exce Reduce the butter to ½ cup and add cup peanut butter; cook and stir over l heat until melted. Also, after stirring cereal, add ⅔ cup chopped peanuts.

Orange Granola Bars

Cream together 1 cup butter or ma garine and 1½ cups firmly packed brow sugar. Add 2 eggs, 1½ teaspoons grat orange peel, and 1 teaspoon vanilla; be until fluffy. Add 1¾ cups all-purpo flour (unsifted), ½ cup *each* wheat ge and nonfat dry milk, 1 teaspoon *each* s and soda; stir until well blended. Stir 1⅔ cups granola-type cereal, ¾ c shredded coconut, 1 cup chopped nu and ⅓ cup sesame seed. Spread mixtu in a greased 10 by 15-inch baking pan.

Bake, uncovered, in a 350° oven un browned, about 25 minutes. Cool in p on a wire rack; cut in bars. Makes abo 32 pieces—*M. and N. B., Pacific Pa sades, Calif.*

SUNS

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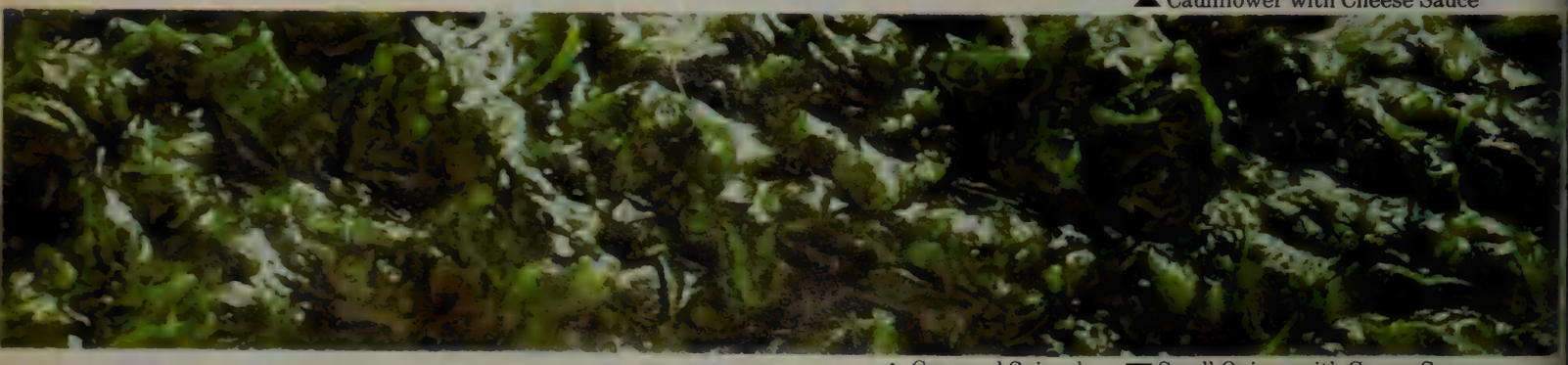
GENERAL FOODS

▲ Broccoli with Cheese Sauce

▲ French Green Beans with Toasted Almonds

▲ Green Peas with Cream Sauce

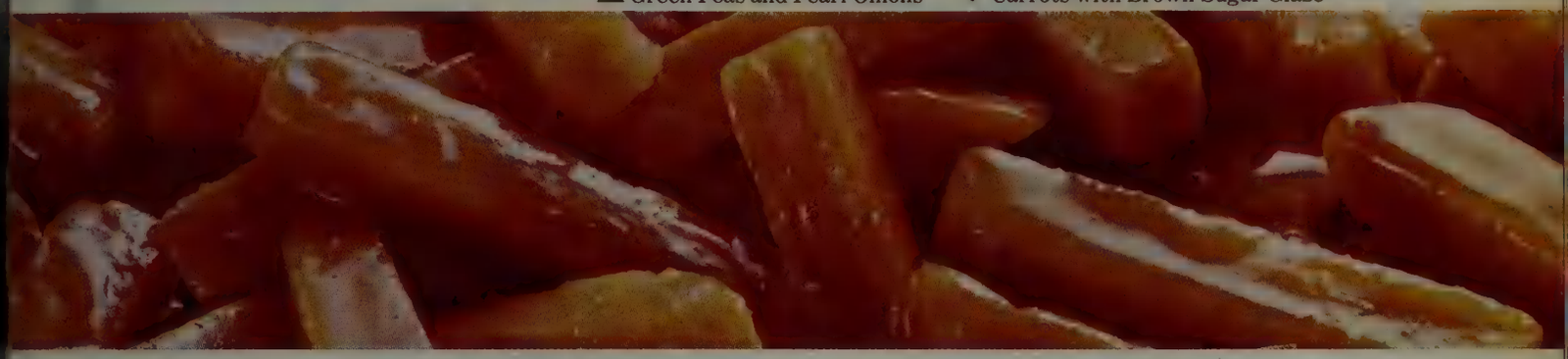
▲ Cauliflower with Cheese Sauce



▲ Creamed Spinach ▼ Small Onions with Cream Sauce

GENERAL FOODS

▲ Green Peas and Pearl Onions ▼ Carrots with Brown Sugar Glaze



irds Eye® Combinations will do almost anything to get your husband's attention.

oes your husband think your vegetables are all as alike as peas in pod? Even when you're not serving peas? Then you should be serving m Birds Eye® Combinations.

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In short, they are vegetables that our husband absolutely cannot ignore. That's ecause Birds Eye® Combinations will atch his passing fancy...the kind that makes m keep on asking you to pass the egetables over to him.

BIRDS EYE®

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The first vegetables your husband might even notice.

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Roll up *seasoned flank steak with the grain of the meat. Tie securely, marinate with vegetables*

DARROW M. W

Cut thick slices *of tender, onion-topped steak roll. Pass flavorful pan juices and accompany with potat*

Beef and potatoes from high in the Andes. The beef is tender, juicy, the potatoes covered with cheese

Beef and potatoes are popular dinner companions in Colombia, where generations of Latin cooks have devised ingenious tricks to turn meat from their lean, grass-fed cattle into tender and succulent delicacies.

In Bogotá they serve simmered flank steak, *sobrebarriga* (so-bray-bar-*ree*-ha), with the waxy white mountain potatoes. Preparation begins early in the day or the night before, when the seasoned, rolled meat is marinated in a vegetable-laden broth. Then, after browning, the meat roll simmers in the oven; when it's very tender you serve it with the flavorful pan juices spooned over the top.

The boiled potatoes that accompany the steak, called *papas chorreadas* (*pah*-pas chor-ray-*ah*-das) are smothered in a thick creamy cheese sauce accented with onion, tomato, and fresh coriander (cilantro).

Though we discovered these specialties high in the Andes, they are easy to duplicate authentically at home. To complete the menu you might also offer a lightly cooked green vegetable and an avocado salad, with a fresh fruit compote for dessert. Dry red wine or beer plus co fee are also appropriate.

Colombian Flank Steak *(Sobrebarriga*

About 2 pounds flank steak
1 teaspoon salt
¼ teaspoon pepper
1 cup coarsely chopped onion
¾ cup finely diced celery
2 large cloves garlic, minced or pressed
2 small tomatoes, peeled and chopped
2 tablespoons chopped parsley
1 bottle (12 oz.) beer or 1½ cups water
2 cups regular-strength beef broth
1 teaspoon ground cumin
2 to 3 tablespoons salad oil

Season both sides of the steak with t salt and pepper; roll up with the grain the meat, tie tightly with string, and pla in a 9 by 13-inch baking dish. Combi ½ cup of the onion with the celery, ga lic, tomatoes, parsley, beer, broth, a cumin; pour over meat, cover, and ma nate 4 to 6 hours or as long as overnig Turn meat over occasionally.

Lift meat from marinade and pat dr Heat 2 tablespoons of the oil in a lar frying pan over medium heat; add me and brown well on all sides. Return me

Now you can get Cook Book™ Chili without opening a book.

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Hormel

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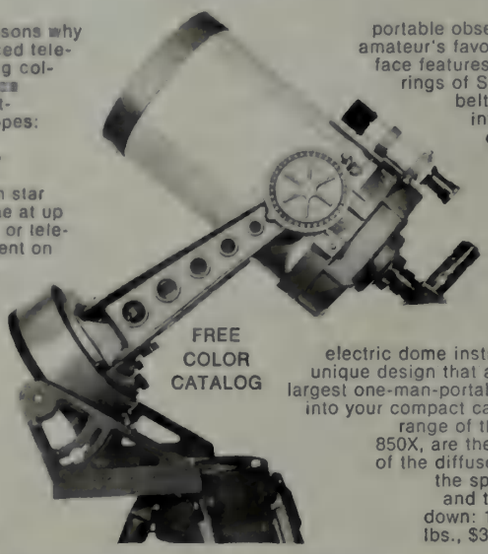

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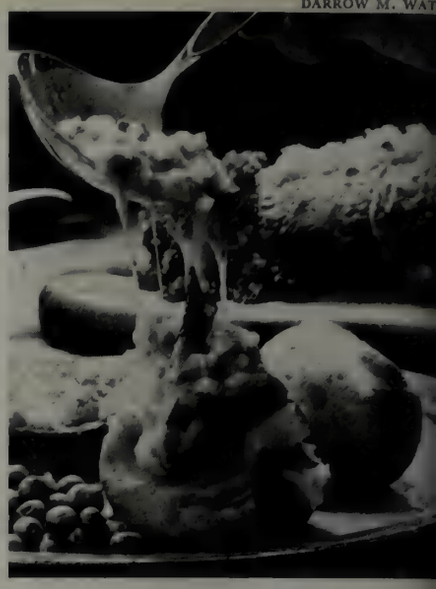
DARROW M. WAT



Generously ladle *onion-chee sauce over hot new potato*

to marinade, cover, and bake in a 35 oven for 2 hours or until meat is ten when pierced; baste with pan juices s eral times.

If needed, place remaining 1 tablespo oil in the frying pan over medium h and sauté remaining ½ cup onion u limp. When meat is tender, spoon s téed onion over top; return to oven, covered, and cook 10 to 15 minu longer or until onions are browned. D card any oil in frying pan.

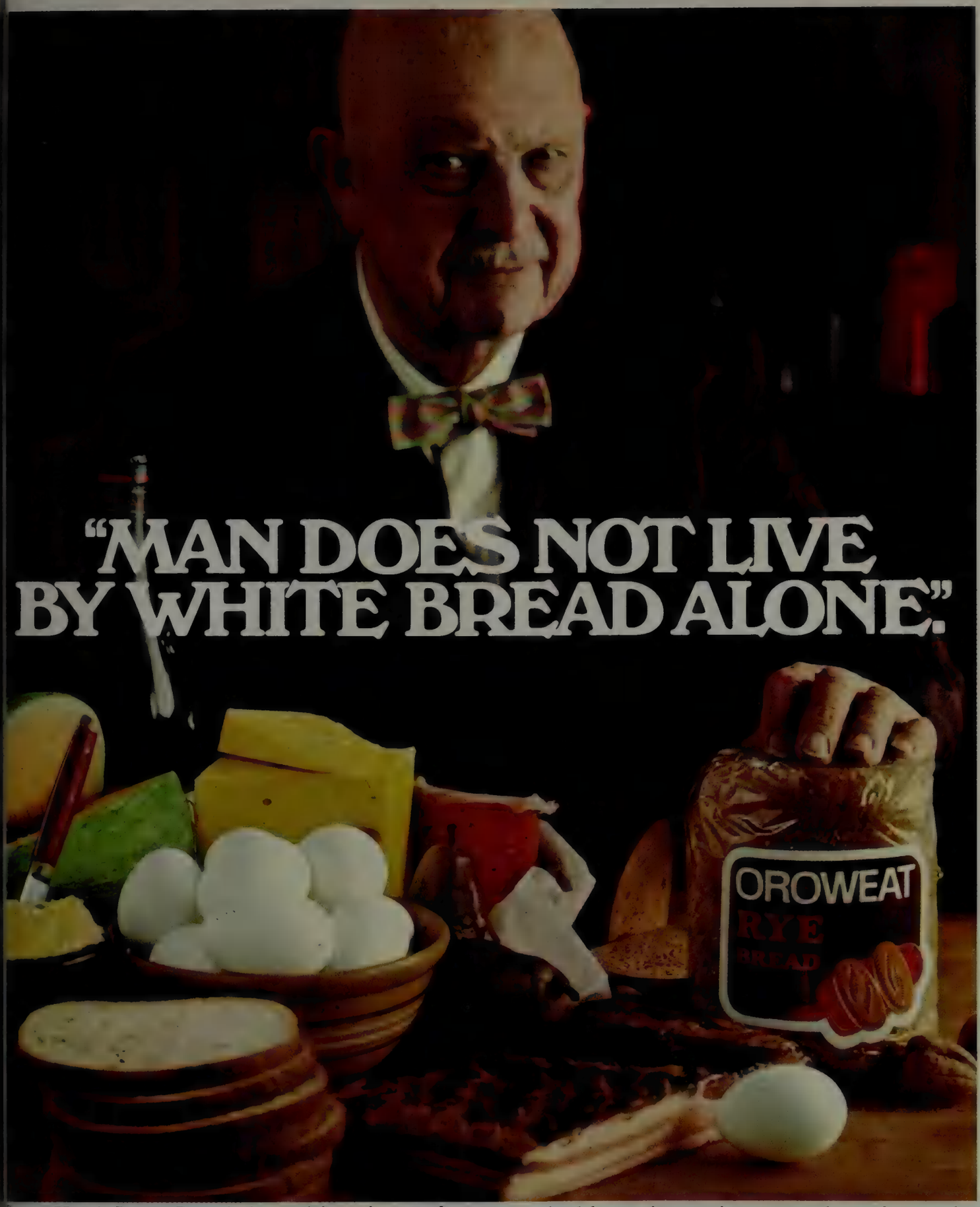
Lift meat to a serving board; pour co ing sauce into the frying pan and b uncovered, over high heat until sligh reduced. Pass sauce to spoon over in vidual portions. Makes 4 to 6 serving

Colombian Potatoes with Cheese
(Papas Chorreadas)

- 8 to 12 small red-skinned new potatoes
- Water
- 2 tablespoons butter or margarine
- 1 medium-sized onion, finely chopped
- 4 large green onions, cut in 1-inch lengths
- 2 large tomatoes, peeled and chopped
- ½ cup whipping cream
- 1 tablespoon finely chopped fresh coriander (cilantro)
- ½ teaspoon oregano leaves
- ¼ teaspoon ground cumin
- Salt and pepper
- 1 cup shredded mozzarella cheese

Scrub potatoes; do not peel. Place po toes in a large pan, cover with wa and boil, covered, until tender w pierced, about 20 minutes. Drain place in a serving container; keep wa

Meanwhile, melt butter in a frying over medium heat; add chopped on and green onion and cook until li Add the tomatoes and cook, stir often, for 5 minutes. Stir in the cre coriander, oregano, cumin, and salt pepper to taste. While stirring, slo add the cheese and cook until chees melted. Serve at once to spoon over potatoes. Serves 4 to 6.



Here's James Beard, dean of American cookery on his favorite subject. For more on bread, read his latest book, "Beard on Bread".

Bread, cheese and wine, three of our greatest foods, have kept body and soul together over long periods of time. And I can't think of a better combination.

When I'm in the mood for cheese, for instance, there's nothing I like better than a ripe brie on buttered, crusty slices of Oroweat Russian Rye.

And for a wine-tasting, try wedges of toasted Oroweat Schwarzwalder Rye in a cheese fondue.

I finally found somebody who loves bread as much as I do. The people of Oroweat. And they show it by making bread with as much care as I would myself.

Oroweat makes a bread for every food and mood. So now you can pick your bread as carefully as you do the rest of the menu.

OROWEAT
whole grain breads

ANUARY IN YOUR GARDEN:

The month is generous . . . five weekends. You can give your garden a grand start

e **short days** of January make week- gardening a problem for most ople, but this year the month com- nsates by giving you five weekends to rk with. So if you can work around Rose Bowl Game, the Super Bowl, l perhaps an occasional rainstorm, re should be plenty of time to do the ly things that your 1977 garden will preciate.

aside an evening soon to send off seed and plant catalogs. (If you're eady on the mailing lists, you'll get new ones early this month.) These alogs are idea sources, and they en list plants, seeds, and tools you n't find anywhere else.

uary is also the best month to buy e-root plants (berries, roses, and iduous trees and shrubs). You can e as much as 50 percent now over es you'll pay for the same plants er they've been put into containers.

e British are here

ee years ago Thompson and Morgan, British seedsmen, started offering r catalog on a trial basis in the ited States; they shipped about 10 cent of their North American seed orders from this country with the rest coming from England. But beginning with their spring 1977 catalog, issued this month, all Thompson and Morgan seeds will be stocked in the United States. This cuts delivery time on some orders by as much as a month.

To get a free copy of the catalog, which lists one of the widest selections of flower and vegetable seeds anywhere, write to Thompson and Morgan Inc., Box 24, Somerdale, N.J. 08083.

Now showing at your local nursery . . .

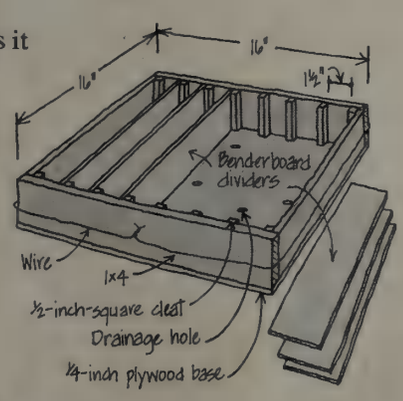
If you're new to gardening or the West, it may surprise you to see several deciduous trees and shrubs in flower this month. Some are also very fragrant.

Two that are popular mainly for their color are flowering quince (several colors and sizes) and forsythia (a large, yellow-flowering shrub).

Look for a deciduous viburnum, Japanese flowering plum, or wintersweet for spicy fragrance as well as color. Most viburnums (white or pink flowers) and the wintersweet (yellow outer sepals, chocolate-colored inner sepals) are large shrubs. The plum (its blossoms are crimson to white) grows to 20 feet.

early start for vegetables

nemade flat like the one pictured at left makes it to give an early start to bles normally put into the ground later. Germination is almost assured, s easy to thin seedlings later.



t is simply a box with removable rs and one end that comes off. s Darland of Carmel Valley, rnia, devised it to start these carrots, weeks old, in his heated greenhouse.

rooted varieties are best for planting and for early harvests. Sow seeds n deep and ½ inch apart in a lightweight, potting mix. Soak the flat from below, cover with newspaper until eds sprout, and keep the soil moist. When seedlings are about 3 inches emove the wire that holds the end of the flat in place; lift seedlings spatula and transplant into furrows. Water immediately after transplanting; oil damp. You can also use this flat to start other root vegetables, s beets, onions, parsnips, and salsify.

Sunset's GARDEN GUIDE

If you buy any of these in bloom, you'll be sure of getting the color and scent you want.

Not all dieffenbachias are big

Your standard dieffenbachia can get so big and lanky that some gardeners lop off the top in desperation and start all over again. But there are shorter, more compact ones.

'Exotica,' 'Perfecta,' and 'Perfection Compacta' are all dieffenbachias that seldom grow taller than 3 to 4 feet. Instead, they get wider, constantly sending up new shoots from the base. It's not unusual for an old plant to have up to 30 stems, 3 feet long.

These shorter dieffenbachias are colorful, with lots of cream markings on dark green leaves. Even as youngsters they tend to have more than one stalk. 'Exotica' and 'Perfecta' are the most common: 'Perfection Compacta' is still very new and not yet widely available.

Drip control

One surefire way to keep a hanging potted plant from dripping is to slip it into a second solid-bottomed pot, which acts as a saucer. The idea also works for pots that sit on floors or tables. Either way, the second pot should be emptied every two or three waterings.

Solid-bottomed pots come in a variety of shapes, sizes, and materials. You can buy highly decorative and reasonably priced glazed ceramic pots, or others that are made of fiberglass, plastic, or even rubber. For a hanging plant, you probably want the whole package to be as light as possible; for instance, a plastic

Sunset's GARDEN GUIDE

In a year *beside a northwest-facing window, this loquat has grown only a few inches, has not been repotted*

GLENN CHRISTIANSEN

pot can contain the plant, slipped into an equally light solid-bottomed pot.

Need an indoor house tree? Why not loquat?

The loquat *(Eriobotrya japonica)* at left is a widely available evergreen fruit tree that's almost always grown outdoors. But if you buy a small one, it can thrive as an attractive indoor container plant for years. The loquat shown here is in a 12-inch clay pot. Twice a week it gets water with a few drops of liquid fertilizer added. Every few months its large, leathery leaves are washed off.

This plant's foliage is deep green above, woolly beneath; fragrant flowers appear in clusters each fall and set fruit which doesn't mature.

When your loquat outgrows the indoors you can plant it outdoors for shade and a try at getting tasty, apricot-sized fruits.

Part eggbeater, part rotary tiller

An electric cultivator that does the jobs of a rotary tiller and a digger is now available. It's called the "Soil Blender" and works using the eggbeater principle, with two counter-rotating augers that dig, till, mix in amendments, and mash clods. When we pushed it through damp heavy soil, the motor slowed down but never stalled. If the augers jam on a large rock, a replaceable shear pin breaks to prevent motor damage.

Tilling depth is controlled by the angle of the augers; point them straight down

NORMAN A. P

Electric tiller *pulverizes soi it bores through it. Variable-sp finger switch controls po*

and they'll dig a planting or post h The double-insulated unit is powered standard 110-volt house current; its it limited only by the length of its tension cord.

At about $130, the Soil Blender is a ful tool for gardens that aren't la enough to warrant a rotary tiller.

MIDWINTER CHECK LIST: *These chores all need doing*

☐ **Bare-root planting.** Berries, grapes, roses, some shrubs, deciduous fruit and ornamental trees, and some vegetables are available bare root this month. If you shop now you'll find the year's best selection and prices on most of these. Plant in a hole twice the size of the root system; work soil around all the roots and build a watering basin. Water well to settle soil.

☐ **Camellias.** Early and midseason Japanica camellias bloom this month. Collect fallen and faded blossoms to help prevent the spread of petal blight.

☐ **Dormant spray.** Dormant spray deciduous fruit trees, shade trees, roses, and shrubs that had scale or fungus problems last season. Use Bordeaux mixture (a copper spray) for fungus diseases such as peach leaf curl. Sprays with oil in them should kill scale.

There are also sprays that do both; lime sulfur - oil and copper-oil sprays are examples. Whatever kind you use, spray only during dry weather, and make sure plants are drenched. Rinse off any evergreens that the spray touches.

☐ **Flowers.** Plant calendulas, cinerarias (in mildest coast climates), pansies, Iceland poppies, primroses, snapdragons, stock, and violas. Some are already in bloom; others will flower in spring. Also look for English daisy (*Bellis perennis*) to set out over bulbs. Plant in soil that's crumbly moist, never in soggy earth.

☐ **Frost protection.** Clear, windless, dry evenings often presage frosty January mornings. When they come, bring tender container plants into a protected patio or garage. Cover plants in open ground with cloth or plastic draped over a simple wooden frame.

☐ **Gladiolus.** Make your first planting of gladiolus corms this month for early bloom. Then plant every three or four weeks until April. Space corms 18 inches apart.

☐ **Lawns.** Keep off lawns when they're wet or frosty; they're easily hurt then. Also apply preemergence control for crabgrass.

☐ **Pruning.** Prune cane berries, grapes, roses, deciduous fruit trees, and vines this month. Wait to prune spring-blooming plants such as flowering fruit trees until they bloom, or until bloom is just past.

☐ **Vegetables.** If soil is dry enough, you can sow beets, carrots, onions (sets, seeds, or seedlings), parsley, peas, radishes, rutabagas, spinach, and turnips. Or visit a nursery for plants of Brussels sprouts, cabbage, and cauliflower; many nurseries will also have bare-root asparagus, artichokes, horseradish, and rhubarb.

☐ **Watering.** January's short and usually cool days can lull you into forgetting about watering. Even with normal rainfall, water plants under eaves and overhangs. If there isn't much rain, water trees and shrubs deeply at least once.

Vitamin loss. Classic in flu.

When your body reacts to the stress of flu, it increases the rate at which it uses up many kinds of nutrients, including vitamins. From a balanced daily diet, your body can store up most nutrients for such emergency use. However, there are certain vitamins the body can't stockpile, no matter how much you take in. Here's why.

Water-soluble vs. fat-soluble vitamins. Your body absorbs two kinds of vitamins from the food you eat, fat-soluble and water-soluble. The fat-soluble vitamins are accumulated in substantial reserves in body tissues. But this is not true of the water-soluble vitamins, B complex and C, and daily replacement through proper diet is considered necessary even when you're well. When your vitamin needs are increased by the stress of infection, immediate supplementation of the water-soluble vitamins, B complex and C may be indicated.

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One branch *of a trellis-trained 'Goldspur' has 12 apples on it. This many apples on a single branch is not uncommon for a spur-type apple*

Have you discovered spur apples? The trees are smaller and the apples grow close together

Apple trees produce their crop on spurs —stubby little branchlets, seldom longer than 2 or 3 inches. One kind of apple tree, with spurs that grow especially close together, is known as the spur-type apple. You see a typical branch above—chock-full of apples.

What you get are more apples per foot of branch: A spur-type apple tree will produce considerably more apples than a normal apple tree of the same size. It also offers the advantages of small size and quicker yield.

Spur apples are still fairly new. The first tree was discovered in the mid-1950s on an Oregon ranch; this year there are quite a few different kinds for sale in the West, by mail order or through retail nurseries. Some spur types do well in parts of Southern California where normal apples don't.

Spur-type trees tend to be smaller than normal apple trees—about two-thirds the size, or some 15 feet tall—so they take up much less space in the garden. Their small stature means the apples are easy to pick from a short ladder.

Shorter and stockier trees

They look stockier because branches are thicker. Spur-type trees seldom need propping; branches are usually sturdy enough to support their crop.

If two-thirds size is still not small enough, you can buy spur types grafted onto dwarfing rootstocks. Depending on the kind of rootstock, you can have a tree as small as 5 feet.

Spur-type apples are typically grafted onto Malling dwarfing rootstocks—with results 5 to 15 feet tall. Mail-order nurseries offer the biggest selection of spur types on these Malling roots: EM 9 is the smallest rootstock (5 to 6 feet), EM 7-A and MM 106 are conside semidwarf (8 to 10 feet), and MM 11 a larger semidwarf (12 to 15 feet).

Spur-type trees are also faster off starting line. They'll start bearing re lar crops just two years after plan (compared to four years for a nor apple tree).

Seven kinds of spur types

There are many patented varieties red and yellow 'Delicious' apples. 'Cr son Spur,' 'Oregon Spur,' 'Red Ki 'Redspur,' 'Spurred Royal,' and 'W spur' are several of the more wi available spur-type red 'Delicious.' 'G spur' and 'Yelo Spur' are spur-t 'Golden Delicious' varieties.

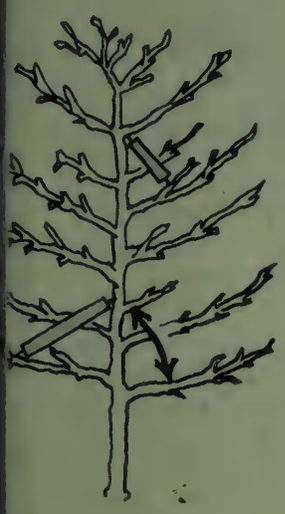
Also available are spur-type varieties 'Arkansas Black,' 'McIntosh,' 'Wines and 'Winter Banana.'

All these apples are much like t

Spur-type *'Winter Banana' is good choice for mild uthern California gardens; this one as grown on MM 106 roots, is five years old*

DON NORMARK

Central-leader tree . . . it takes 5 winters



e spreaders *to make anches grow from 45° to ° out from trunk*

Installing *a spreader: 1 by 1-inch pine with 2-inch (6d) finishing nails (heads snipped off) in each end*

drawing above shows the idea nd a central-leader tree—you t one sturdy central trunk, with y horizontal fruit-bearing ches. The result looks ething like a Christmas tree.

ht after planting, prune off any ts on top that compete with the ral leader, then cut the leader all other branches back by -third to encourage vigorous horizontal growth. The owing winter, do the same g to the new growth.

he third year, start spreading out branches, using nail-and-stick spreaders (see photograph above). Prune off forking branches and cut back all others by one-third. Do the same thing again the fourth winter.

Five winters after planting, your tree should be about the size you want to keep it. Don't let side branches off the main horizontal branches get much longer than 1 foot; prune them back to first spur. Cut back vigorous branches by one-third and prune out forking branches.

standard namesakes, only with the spur-bearing characteristics.

Your local nursery may carry some of these. If you can't find what you want, try writing to these three Washington mail-order nurseries: C&O Nursery, Box 116, Wenatchee 98801; May Nursery Company, Box 1312, Yakima 98907; Van Well Nursery, Box 1339, Wenatchee 98801.

Spurs in Southern California

In most of the West you can plant any apple variety you desire—but not in Southern California. Most of that area just doesn't get enough cold nights for trees to set fruit reliably year after year. Some apples, though, do prosper here, even close to the beach. The spur 'Winter Banana' is one. 'Beverly Hills' is another; though not technically a spur, it comes close enough to be called a semispur.

Further inland, in the San Fernando and San Gabriel valleys and the River side - San Bernardino area, you can grow more of the spur-type apples. Some do seem to need less winter chilling than their standard equivalents and are good choices for these climates. Especially recommended are 'Yelo Spur' and 'Crimson Spur'; both varieties are sold at many retail nurseries.

Since spur types also tend to produce more fruit inside the tree, out of the sun, the apples aren't as likely to sunscald on hot summer and fall days.

Planting and pruning

In January and February, apples are sold bare root—without any soil around their roots. Planted this way, they get better established and are less expensive.

To plant an apple bare root, make a cone of soil in the bottom of the planting hole and spread the roots over this mound. Plant so that the old soil line (where the bark changes color) is slightly above the surface.

The smallest dwarf apples have fairly weak roots, so tie each trunk between two sturdy stakes about a foot from the tree on either side.

Spur types need the same care as standard apples: regular irrigation and at least once-a-year feeding (preferably just before they bloom in early spring).

Spur-type trees need much less pruning. If you prune them too much, they'll do more growing and less fruiting. Pruning a spur type usually involves just thinning out branches that get too close together and cutting back overly vigorous new growth (especially on trees three years and older).

In the box at left, you can read about one method commercial orchardists use to train and prune spur types. These apples are also naturals for training on a wall or trellis. □

JERRY FREDRICK

Two young visitors *enjoy the White and Black Large Cochins at the Cow Palace show*

Judge examines *a bantam male Columbian Plymouth Rock while the clerk stands by to record its standing*

Out for a stroll *with its owner, this is a White Chinese gander*

Poultry shows to enter or attend ... five on nine winter weekends

Five of the West's top poultry shows will take place in the nine weekends of January and February this year. And the people who will be showing the birds and going to see them are apt to be your friends and neighbors—not commercial breeders.

Breeding and enjoying the standard breeds of chickens and waterfowl have passed almost completely into the hands of backyard amateurs. The commercial poultry breeders now grow more efficient (but less handsome) crossbreeds.

The shows are an ideal place to get better acquainted with—and perhaps purchase birds of—any of the 90 true breeds and varieties of chickens and waterfowl. The shows also furnish a pleasant arena in which to find out how good your own birds are.

You enter the birds in a show early—entry deadlines are usually two to four weeks before the day the show starts. In the last few days before the show you get the birds all spiffed up so they look nice. At the show poultry judges will examine your birds as the judge is doing in the photograph above.

The owners of the best birds in the different categories win trophies, ribbons, cash, and the satisfaction of owning exemplary creatures. That kind of satisfaction is greatest for exhibitors who bred and raised their winners themselves (as opposed to merely buying them).

Here are the five January-February shows:

Murray, Utah: Utah Fancy Feather Association Winter Show, Salt Lake County Fairgrounds, January 7, 8, and 9. Open 9 A.M. to 9 P.M. Friday and Satur and 9 to 3 Sunday. To enter, write Frank Takahashi, 1783 E. 6450 So Ogden 84403. Entry deadline: Dec ber 28.

Red Bluff, California: Northern Cali nia Bird Fanciers Show, Fairgrou January 15 and 16. Open 9 A.M. t P.M. Saturday, 9 to 2 Sunday. To en write to Donald Glover, 540 Wal Ave., Red Bluff 96080. Entry deadli January 1.

San Francisco: Pacific Poultry Breed Association Midwinter Show, C Palace, February 5 and 6. Open 9 A to 4 P.M. both days. To enter, write Diane Williams, Star Route, Point Re Station, Calif. 94956. Entry deadli January 24.

Phoenix: Arizona State Poultry Asso tion Winter Show, State Fairgroun 19th and Grand avenues, February and 13. Open 9 A.M. to 7 P.M. Saturd 8 to 2 Sunday. To enter, write Georgia Johnson, 3123 E. St. John R Phoenix 85032. Entry deadline: J uary 25.

Eureka, California: Humboldt Poul Fanciers Association Winter Sh Little Cow Palace, Redwood Acres F grounds, 3750 Harris St., February and 20. Open 8 A.M. to 4:30 P.M. Sat day, 9 to 2:30 Sunday. To enter, w to Box 6144, Eureka 95501. Entry de line: February 12.

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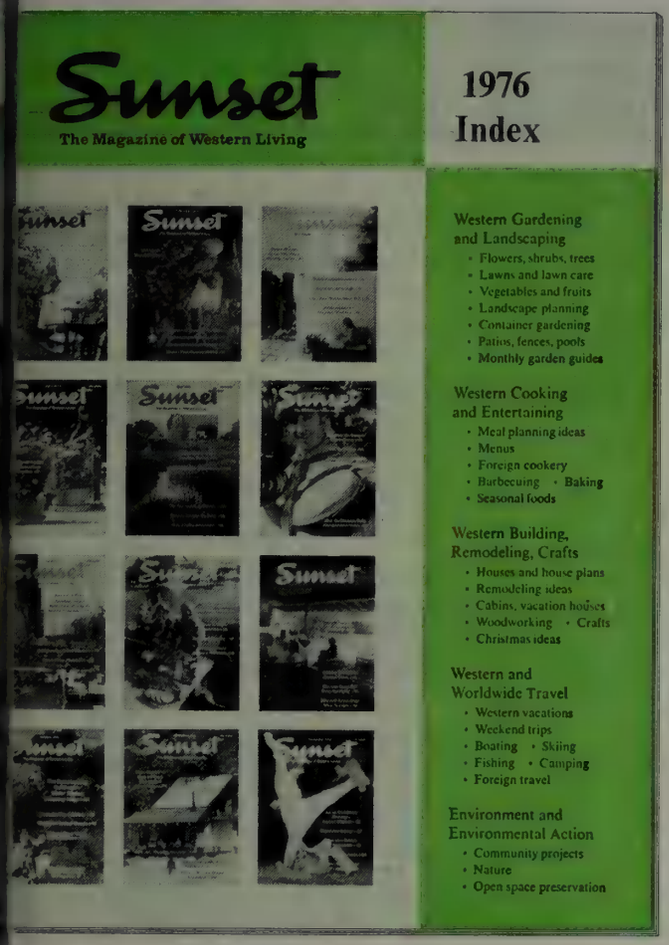

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PETER O. WHITELEY

'Double Delight' *is named for its contrast of creamy white and rosy red*

The All-Americas, other new roses

It's a year for remarkably flashy colors and heady scents among the 1977 All-America Rose Selections (AARS) and the other new rose introductions.

The All-Americas consist of the striking bicolor 'Double Delight' pictured above, which growers tout to be one of the best new hybrid teas to come along in years, and two glowing corals—'Prominent,' a grandiflora, and 'First Edition,' a floribunda.

To win an AARS award, a rose has to perform exceptionally well in trial rose gardens scattered across the country and must measure up to an exceptional degree in color, flower form and abundance, resistance to disease, and several other standards of quality.

But there's a flaw in the system. Only roses that do well everywhere are considered for the award. A nonwinner might outshine the AARS superstars in some regions, but do only moderately well in others. Local rose societies can tell you how the winners flourished in your community, and make suggestions on the best old favorites.

As in every year, you'll be taking pot-luck on the new roses introduced, but you can be sure that rose growers aren't going to waste their time and money offering an unworthy selection to the public. Bringing out a new rose takes about nine years and costs thousands of dollars, so it's to each grower's advantage to show a good one.

New roses, 1977

The introductions fall into four categories: floribunda (F)—small-bloomed, short, bushy plants; flora tea (FT)—classic blooms in clusters; grandiflora (G)—large-flowered, heavy-bearing bushes; and hybrid tea (HT)—well-shaped b classic blooms, single stems.

'Accent' (F). A very low-growing (1 18 inches), prolifically flowering, red rose with 2-inch flowers, shiny age. Excellent for mass effect.

'Alabama' (HT). Color blends f white on pink to pink on pink. Stems long and strong, foliage is exceptio Exhibition-quality buds and flowers.

'Calico' (HT). Buds and flowers coml dusky pink, gold-orange-yellow, and colors; petals are distinctly ruffled. F flowering, handsome foliage.

'Cynthia' (HT). Classically formed red buds on 12 to 15-inch single st open to exceptionally large, shapely, 6-inch fragrant, rose pink flowers.

'Double Delight' (HT). Large, cre white buds edged with rosy to deep open progressively more red. Flo are richly fragrant, large. Upright fo long stems, free-flowering habit.

'First Edition' (HT). Luminously ored, very showy coral flowers that tensify with cold weather. Flo heavily, almost nonstop. Blossoms a to 2½ inches across. Especially goo borders and against fences.

'Half Time' (HT). Large, spectacul colored buds and flowers reveal cherry red upper petals, deep straw low reverse. Dense, leathery foliage.

'Marmalade' (HT). Long, tape orange buds swirl open to fragrant, 4 inch flowers; undersides are saffron low. Fresh, minty green foliage.

'Matador' (F). Compact, 2½-foot plants with dense, dark green foli festive orange-red petals, flashy yel reverse. Long-lasting color.

'New Day' (HT). Light yellow buds o to golden yellow. Plants are 4 to 5 high, with many long, straight si stems; most flowers are in clusters.

'Patrician' (HT). A bright, clear, hea fragrant red with graceful, upright fo Tall, freely branching.

'Prominent' (G). Hot coral-orange fl ers. Petals form distinct points as t open. Many single, strong hybrid-type stems, excellent keeping quali Shows great promise for hot climat

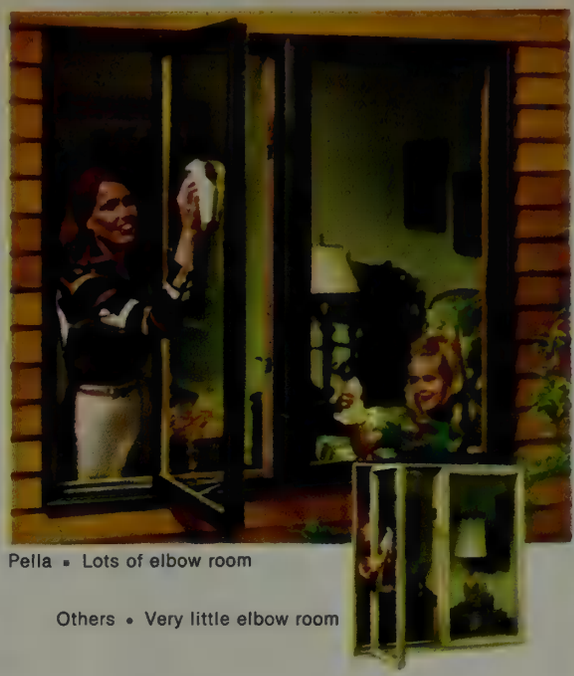
'Razzle Dazzle' (FT). Petals are d scarlet lined with pure white underne Extremely free flowering, 'bou branching habit. Medium-sized plan

'Sunsprite' (F). Bright butter-yel petals with contrasting brown stam Fragrant clusters on 3-foot-high pla

'Sweet 'N' Pink' (HT). Large, inform soft pink flowers have exception heavy, sweet fragrance. Stems strong; excellent foliage.

'Typhoo Tea' (HT) Heavy fragra dramatic coral orange petals, silver w reverse. Tall plants, many spread branches, 5-inch flowers.

Only Pella makes a wood window his easy to wash



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Others • Very little elbow room

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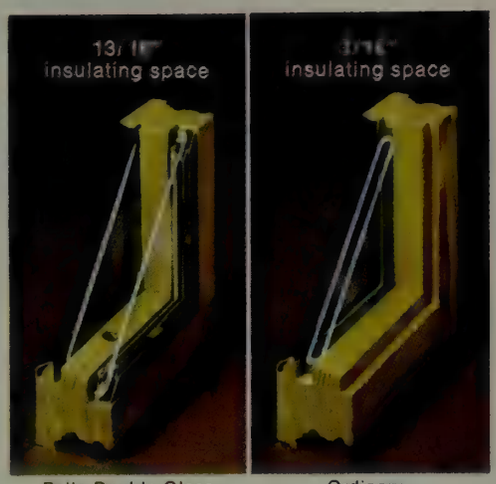

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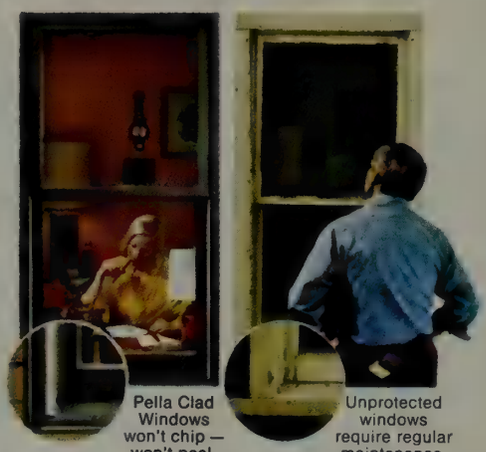

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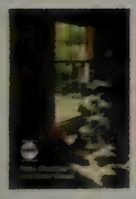

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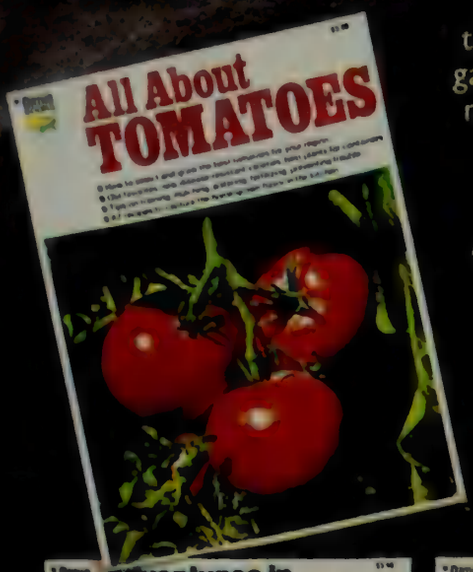

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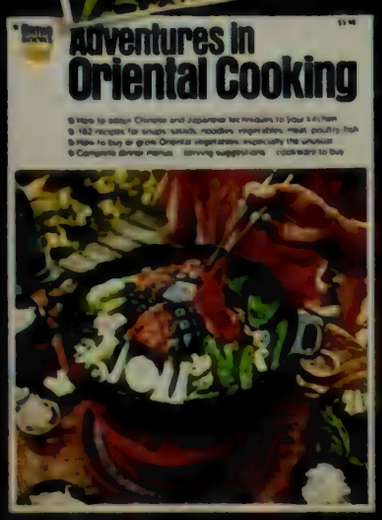

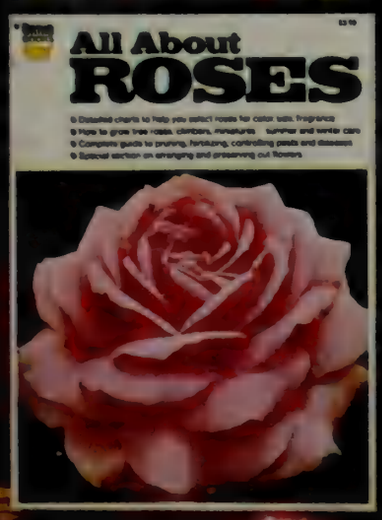

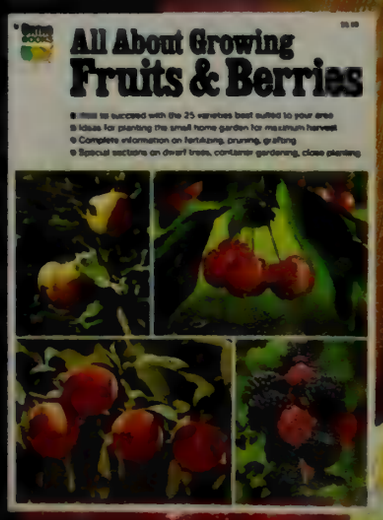

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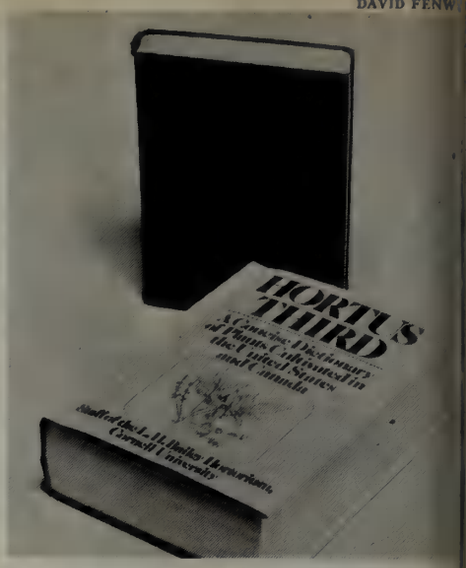

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The botanically unsophisticated rea will be comfortable with this edition. glossary explains botanical terms used the text and an index of common nan makes it easy to find entries. The ent book has a kindly and benevolent that may not be obvious to everyo scholars can be arrogant, but *Hor Third's* are not.

What about changes in plant nam Will we have to learn new names everything? There are fewer than y might expect and, although many miliar names are involved, changes se to be made conservatively in most stances.

Here are two examples: European wh birch is now *Betula pendula* rather th *B. verrucosa* (most nurserymen h always called it *B. pendula* anyw ignoring an earlier change). And acokantheras, which had earlier b transferred to *Carissa*, are now *Acok thera* again (which is sensible, since carissas are edible and the acokanthe quite poisonous).

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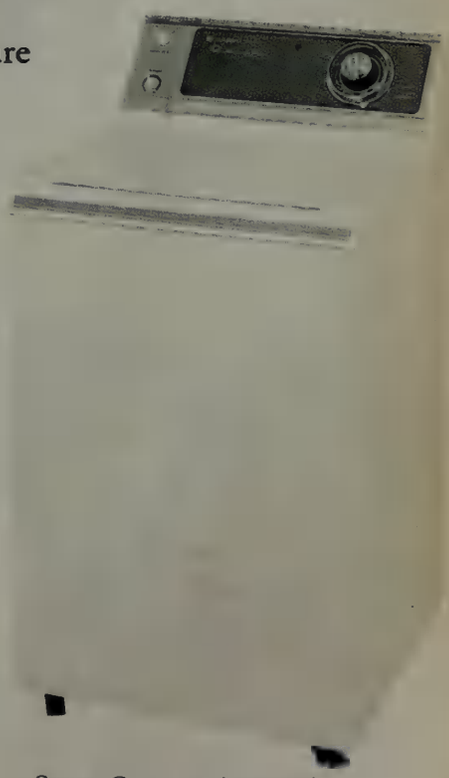

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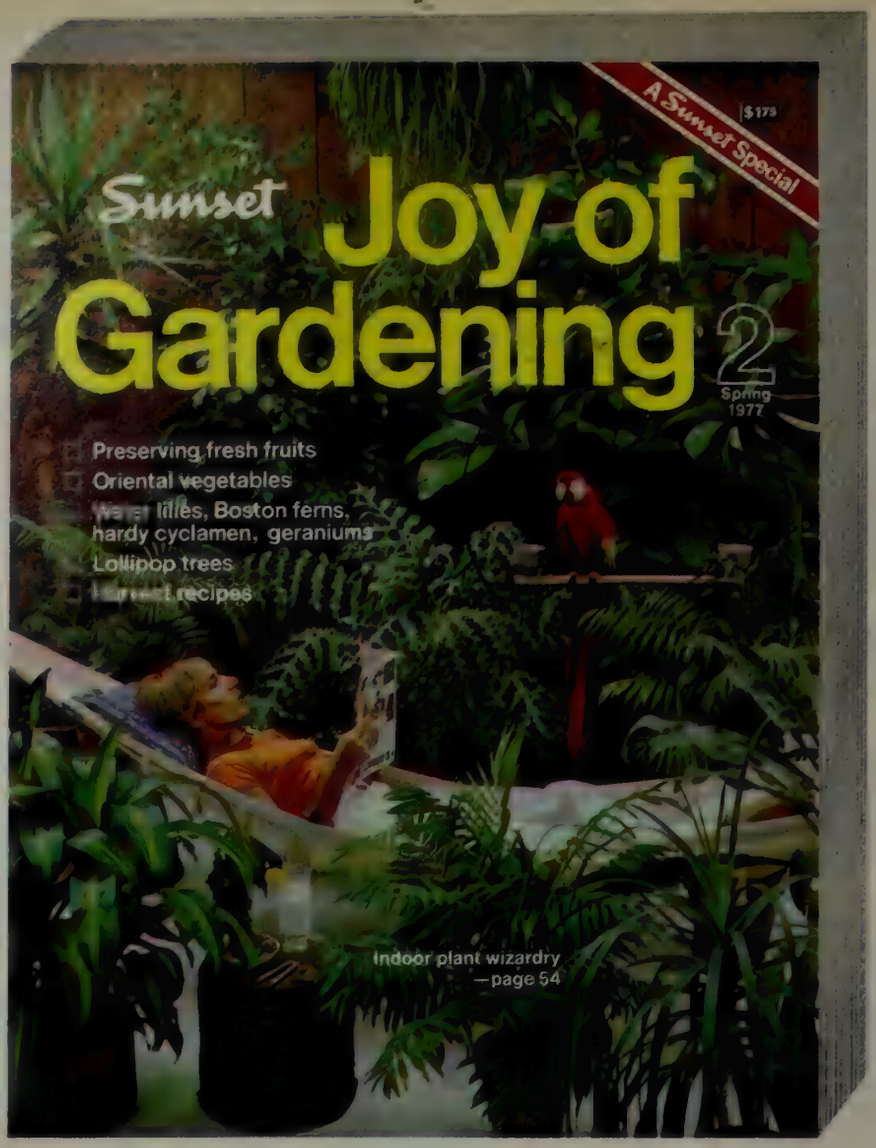

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PETER O. WHITELEY

ady loaded *with red fruits,*
n King' is only 6 inches tall

It looks ancient even when young

awberry tree *(Arbutus unedo)* grows all but the coldest parts of the West l puts on a good all-year performance erever it grows. Its dark green, red-nmed leaves are cheery in all seasons; nubbly round fruits turn from green yellow to red and ripen at about the e time in late fall or winter that the oping clusters of white flowers open.

rmally a small tree or large shrub 25 feet tall (usually about 15), it is ily shaped — not sheared — into a ng-patterned tree with a gnarled nk and branches of red-toned brown ered with checkered, flaking bark.

rdeners with limited space will like extra-dwarf variety of strawberry tree ned 'Elfin King.' Difficult propagation kes it rare, and it hasn't been around g—the oldest plants are less than 20 rs old. Still, it already has a consider-e fan club. Many nurserymen and dscape architects consider it one of choicest new plants for containers or all areas. The remark most often rd is that it is a natural bonsai.

n-year-old 'Elfin Kings' are only 4 to 5 t tall; but even younger, smaller plants gallon cans look like ancient bonsai. ey have heavy, twisted trunks, a dense d of foliage, and a remarkably thick l continuous crop of fruits and wers. All the new growth immediately s flowers and fruit instead of growth ds, which is why propagation of the ain is difficult.

is desirable plant is likely to remain collector's item for a long time, even ough more and more growers have gun propagating it. Ask the best nur-yman you know for one; if he doesn't ve it, he may be able to get it for you or at any rate to put you on a waiting for a plant. □

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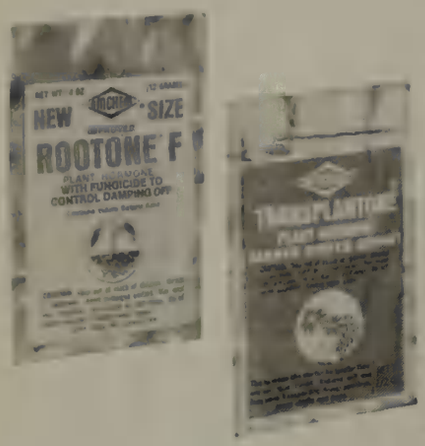

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March of Dimes

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Rose lessons and other events

January and February. Winter seas poultry shows. For details, see page 9

Redwood City. January 8. Annual au tion of camellia plants and garden m terials cosponsored by the Peninsu Camellia Society and the Parks and Re reation Department. Place: Veterai Memorial Building, 1455 Madison Av Hours: 1:30 P.M. until sold out.

San Francisco. January 8. Annual ro pruning demonstration by the San Fra cisco Rose Society, in cooperation wi the Recreation and Park Departme Place: Golden Gate Park Rose Garde Park Presidio Blvd. and Fulton Hours: 10 A.M. to 5 P.M. Free. If rains, the demonstration will be on Su day, January 16.

Oakland. January 9. Twenty-ninth a nual rose pruning demonstration by t East Bay Rose Society in cooperati with the Parks and Recreation Depa ment. Place: Oakland Municipal Ro Garden, foot of Jean St. near Gra Ave. Hours: 1 to 4 P.M. Free. If it rain the demonstration will be the followi Sunday, January 16.

San Francisco. January 11, 18, and 2 Tuesday garden lectures sponsored b the Strybing Arboretum Society. Plac Hall of Flowers, Golden Gate Par Ninth Ave. and Lincoln Way. For fu ther information, telephone the socie office at (415) 661-0822.

San Rafael. January 12. Lecture on bo sai by Harvey and Grace Suzuki, spo sored by the Peacock Gap Garden Clu Place: Peacock Gap Golf and Countr Club, 333 Biscayne Place. Hours: 9:3 A.M., coffee; 10:30 to noon, progra Donation: $1.50.

San Jose. January 22 and 23. Rose pru ing and planting demonstration by th Santa Clara County Rose Society in co operation with the Parks and Recre tion Department. Place: Municipal Ro Garden, Dana and Naglee avenue Hours: 1 to 3 P.M. Free. If it rains, th site will be Leininger Community Ce ter, 1300 Senter Rd.

Davis. January 22 and 29. Two-Satu day course on raising chickens for fu and food, sponsored by the Universit of California Extension. Place: Red wood Room, Mini-center, Hutchiso Dr., campus. Hours: 9 A.M. to 1 P.M both days. Fee: $25. For further infor mation, telephone (916) 752-0880.

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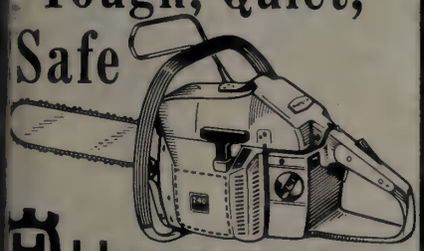

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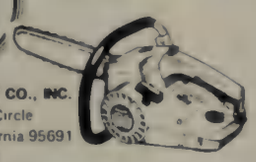

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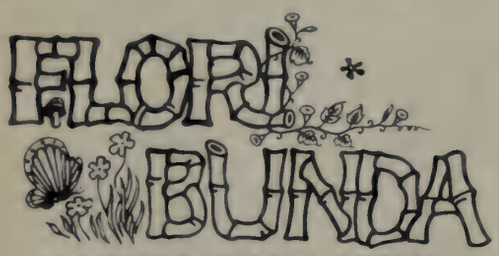

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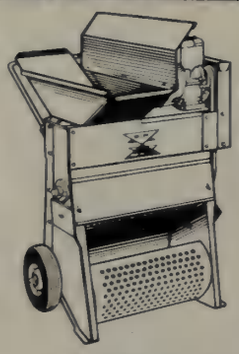

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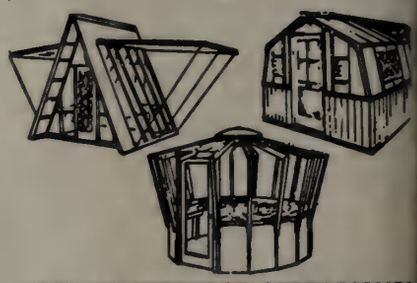

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A sturdy and simple *ladder design gives this split-leaf philodendron 8 feet to climb as it grows*

This philodendron climbs its way up a ladder

Supporting a big split-leaf philodendron *(Monstera deliciosa)* can be a problem. This heavy plant needs something sturdy to climb on.

Clayton Eng of Mercer Island, Washington, supported his in an attractive way with an 8-foot-high ladder constructed of clear fir 2 by 4's with holes drilled for ⅞-inch dowels.

The philodendron is planted in a 9½-inch clay pot, which is placed inside a 12½ by 12½-inch stainless steel kettle that the owner sprayed with yellow enamel. The 2 by 4's slip through the kettle handles and are stabilized with two extra ¾-inch pieces of fir that fit next to the container and underneath its lip. The legs and extra pieces are lag-bolted to the steel kettle on both sides. The plant climbs up dowels that extend through holes drilled every 8 inches along the verticals.

A large west-facing window across the room gives this philodendron ample light. The owner waters it regularly and feeds it lightly once a month between April and October. □

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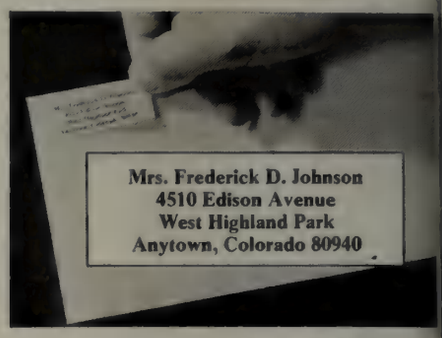

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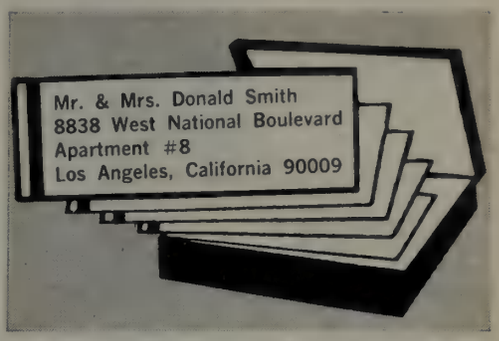

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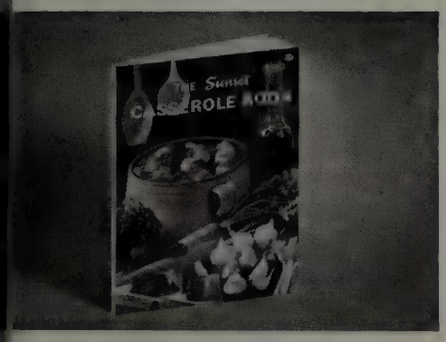

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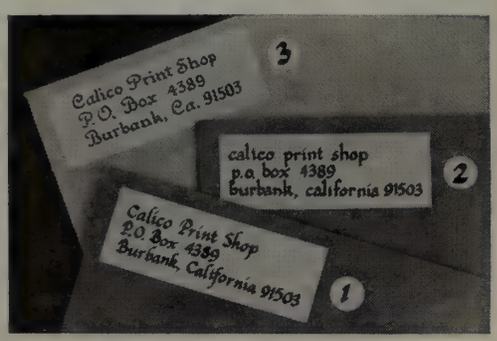

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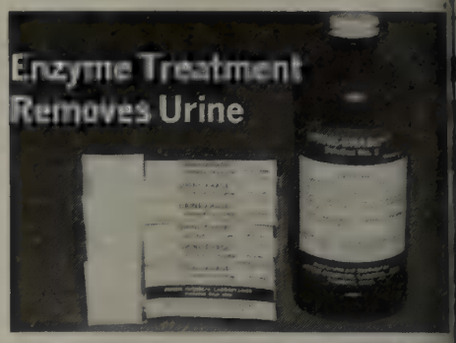

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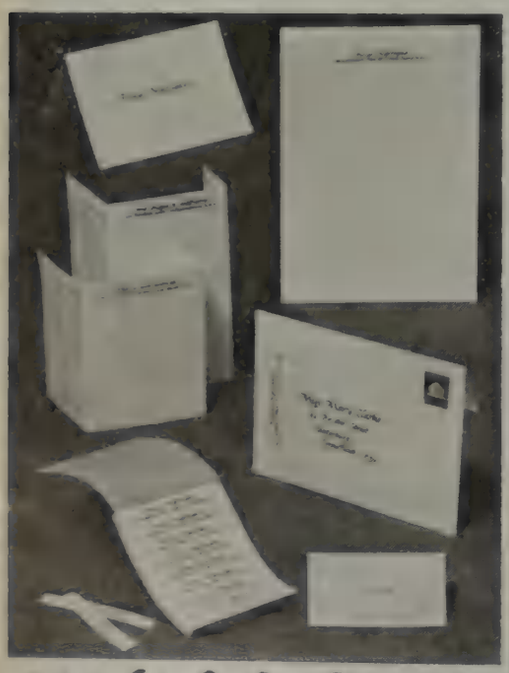

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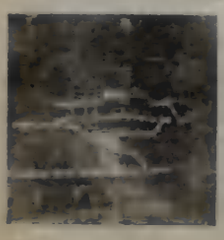

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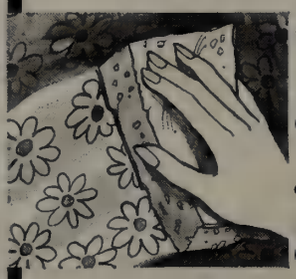

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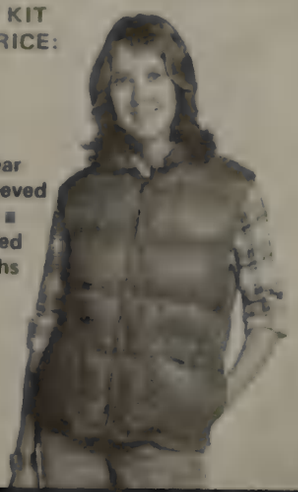

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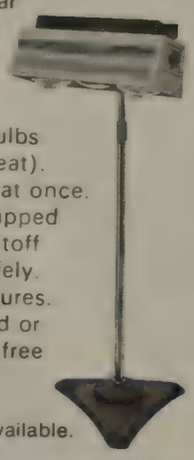

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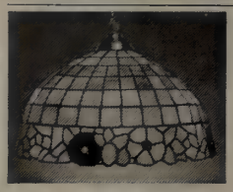

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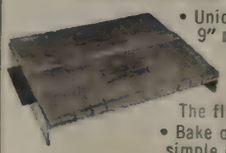

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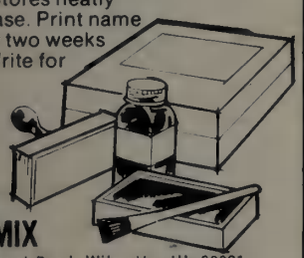

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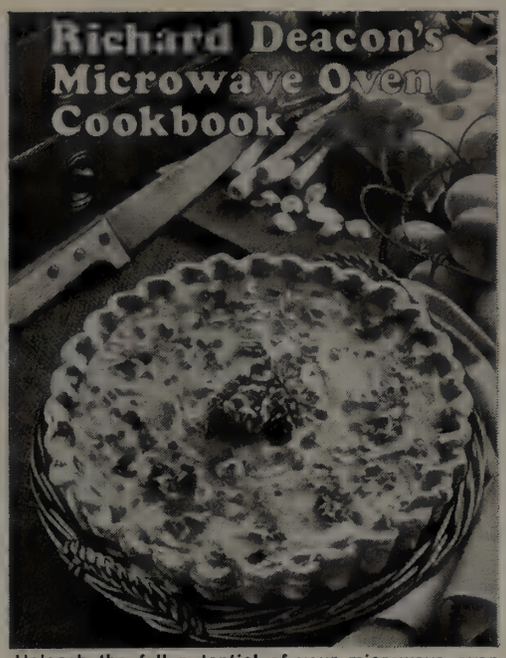

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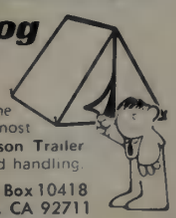

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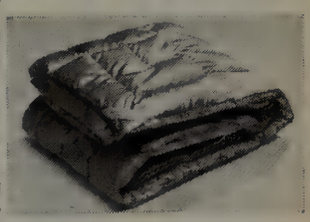

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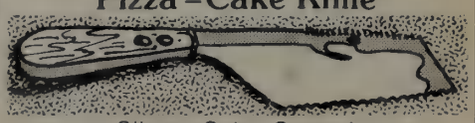

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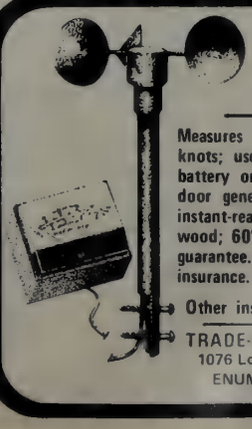

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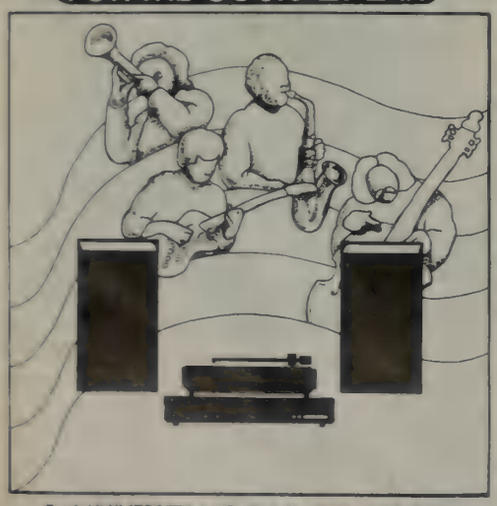

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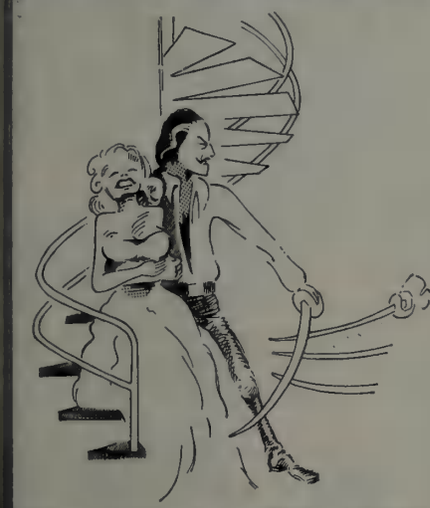

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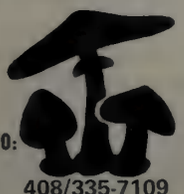

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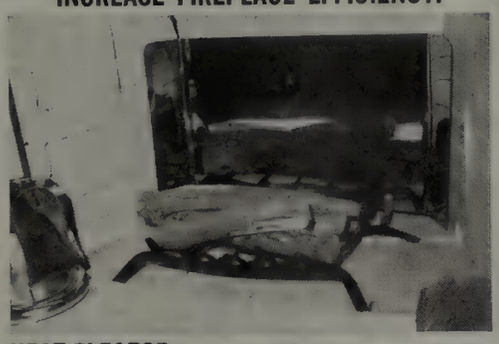

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LETTER FROM *Sunset*

Bottle law . . . in your state?

At one time or another all of us have deplored the way certain peo mar the landscape with their litter. Some believe that only a big cha in personal ethics can ever correct this problem. Others hope t legislation will do some good.

Oregon's innovative and controversial "bottle bill" of 1972 is one su legislative attempt to discourage litter and conserve resources.

So far the Oregon idea has been slow to catch on in other states, this year it's likely we'll be hearing more about it. Advocates in seve Western states, including California (with Senate Bill 4), are plannin renewed push for bottle laws. Some states already considered such la in last fall's elections: two passed (Maine and Michigan), two fai (Colorado and Massachusetts). And the Environmental Protect Agency is now initiating container-deposit programs at federal facilit —after a successful experiment last summer at Yosemite.

Opponents of the Oregon law concede that it helps reduce litter, b they deplore its costs. Both sides are armed with complex statisti many conflicting. A look at the results in Oregon may help you foll any 1977 controversy.

What the law requires. Nonreturnable beer and soft drink cans a bottles have been replaced by those bearing a refund value. Standa bottles, refillable by more than one bottler, are encouraged. Cans wi pull-tops are also banned in Oregon (this is not in the bottle law pr posals of some other states).

Environmental effect. Studies show a marked decrease in contain debris along roadways. Fewer increasingly precious raw materials a being used for container manufacture, and considerably less energy- by some estimates, 1.4 trillion fewer BTU's per year.

Retail sales. Beverage prices generally seem no higher than those neighboring states. Beer sales leveled at first, but have resumed steady rate of increase. Soft drink figures are unavailable.

Cost to business. The *package manufacturing* industry has lost bot revenue and jobs—a shift to returnable bottles has particularly hurt ca manufacturers. Retooling for new containers is costly. *Local bottler* were at first hurt by a sales lag and the higher cost of returnable cor tainers, but may now benefit somewhat from the lower cost of buyin fewer new containers and refilling returned ones. *Non-local bottler* have been hurt. *Retailers* bear the cost of deposit transactions plu handling and storing the containers; this cost may be offset by th lower wholesale cost of beverages in reused containers.

Jobs. There has been a small net increase—maybe a couple of hundre or more, although the figures are hotly disputed. Skilled labor (manu facturing) likely suffered at the expense of the less skilled (clerks, bottl handlers, transport workers).

There are no simple solutions, but the Oregonians' response is one posi tive step. Local factors and arguments deserve to be weighed carefully as bottle law proposals come up in your state.

WINDOW ON THE WEST: *Oregon trail*

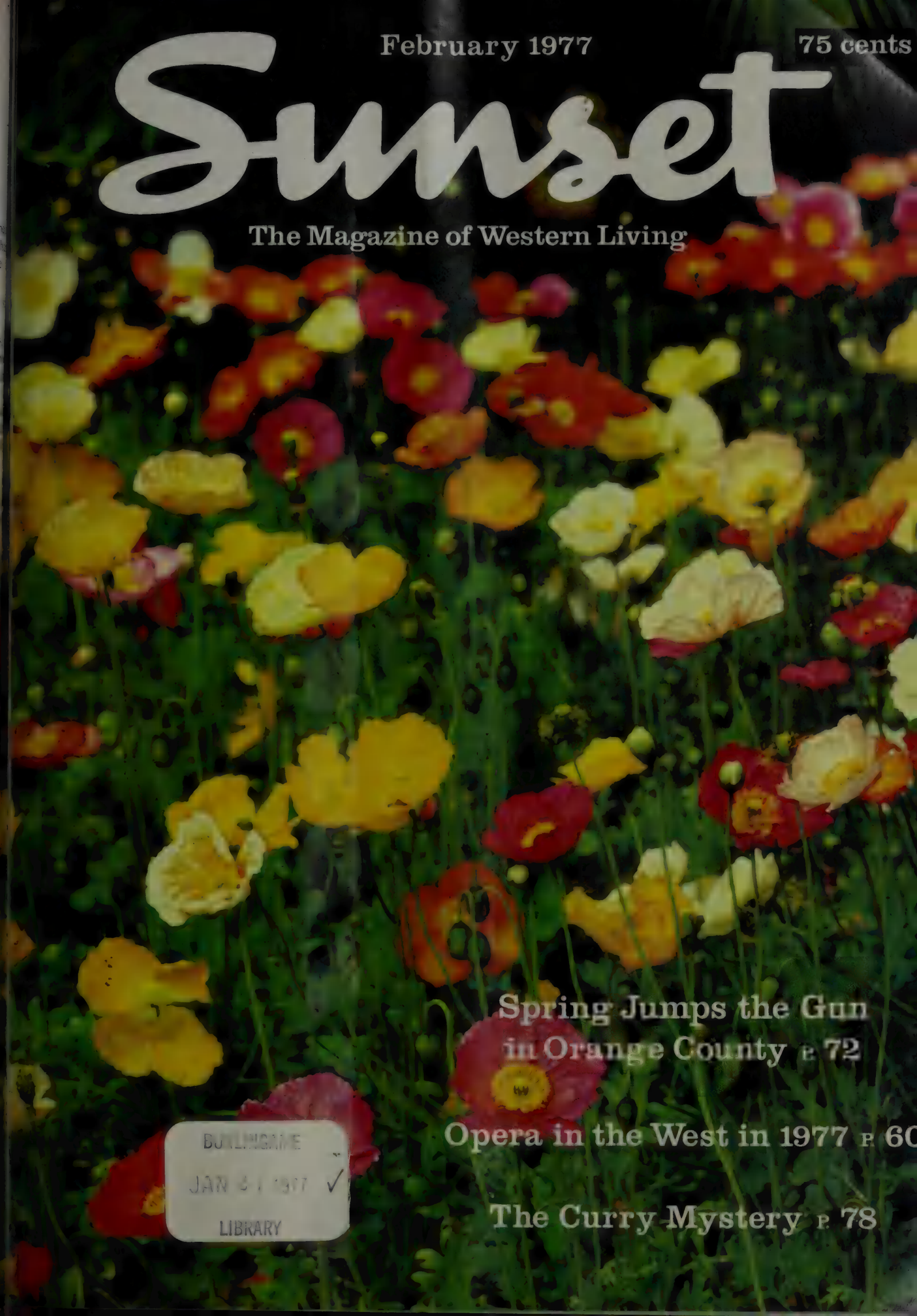
A new walking trail is opening up stretches of Oregon's spectacular coast. Within a decade it is scheduled to extend the length of the state. Here a hiker passes a windswept fir on one of the newest sections, on a blufftop between Sunset and Shore Acres state parks just south of Coos Bay. For a guide to completed sections of the trail, write to Oregon State Parks, 525 Trade St. S.E., Salem 97310.

February 1977

75 cents

Sunset

The Magazine of Western Living



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The Curry Mystery p. 78

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Fifty years ago when the last word in elegance opened on Waikiki Beach the first word went out in Sunset.

Ready for you February 1st, 1927

BUILT and furnished [redacted] a [redacted] of about $4,000,000, the new Royal Hawaiian Hotel offers the discrim[redacted] the combined perfection [redacted] romantic atmosphere and [redacted] com[redacted].

Fronting on Waikiki Beach, the surroundings of the Hotel [redacted] surpassing beauty. Its tropic gardens are splendid with palm trees which long ago shaded grounds reserved [redacted] royalty. Each of its 4[redacted] rooms is an outside one looking [redacted] upon verdure clad mountains [redacted] sapphire sea. Each room has a private bath and shower, and is fitted with [redacted] modern [redacted] venience. The formal opening of the Royal Hawaiian will [redacted] the outstanding social event of this winter in Honolulu. *Immediate reservations suggested.*

The Moana Hotel, also located on Waikiki Beach in grounds adjacent to the Royal Hawaiian, is known to travelers from every clime, and [redacted] famed for its comfort and hospitable charm. A group of comfortable and homelike cottages are operated in connection with the hotel.

For [redacted] and information [redacted] rates, [redacted] to Arthur Benaglia, General Manager, Territorial Hotel Company, Limited, Honolulu, [redacted] Matson Navigation Company, 215 Market St., San Francisco; 510 W. Sixth St., Los Angeles; 814 Second Ave., Seattle; 140 S. Dearborn St., Chicago; 50 E. Forty-second St., New York.

[redacted] YEAR 'ROUND OUTDOOR SPORTS [redacted] OF [redacted] HOTELS—
GOLF, TENNIS, HORSE-BACK RIDING, SWIMMING, CANOEING, [redacted] SURFING

Royal Hawaiian Hotel

1927

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Royal Hawaiian

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The Royal Hawaiian might be right for you. Or you might pick the informal Surfrider . . . the contemporary, glamorous Sheraton-Waikiki . . . the good value of the Princess Kaiulani . . . the South Seas charm of the Moana. Ask your Travel Agent. He knows us. And you. He knows there's a Sheraton in Waikiki that's right for you.

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1977

In 1927, the Royal Hawaiian's guests arrived in Hawaii aboard luxury steamships, traveling with servants, trunks, and an occasional Rolls Royce. Thousands of photographs were snapped on the broad verandas to be sent back to big city and small town newspapers where they would appear on the "society" pages.

Today the guests come on sleek jets, and travel considerably lighter. But they still come t the Royal Hawaiian. And while the chrom and glass have risen around her, peopl still marvel at the stunning panor ramas of lawn and ocean, the fin showrooms and a million detail intriguing and perfec

People return to th Royal Hawaiian becaus of her style and grac And because tru elegance is timeles

The Royal Hawaiian

The Hotel on Waikiki Beach

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Sunset · The Magazine of Western Living*
THE PACIFIC MONTHLY*

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The Cover Story

These Iceland poppies are already in bloom at Roger's Gardens, one of the innovative new nurseries in coastal Orange County. Nurseries still sell Iceland poppies to bloom in late spring, though these were planted in fall. Cover photograph by Glenn Christiansen

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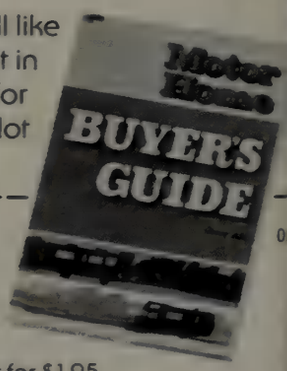
"Santa Claus is a Winnebago dealer in Sacramento."

Hank and Peggy Tavener, Sparks, Nevada.

"We thought our Christmas vacation trip was ruined," Hank recalls, "when we found a serious water leak on our '73 Winnebago Indian. But a dealer in Sacramento, California saved our holiday.

"It was Friday afternoon, so he put two men on our repair job. They worked hard, stayed overtime and had us back on the road in five hours. Maybe that dealer wasn't Santa Claus, but my family thinks so. Service like his is one big reason we recently bought our third Winnebago."

Expert, coast-to-coast service, a part of the Winnebago Homeowners Plan, is important to consider when you're buying a motor home. To help you judge such "hidden" values—as well as models, features and floor plans—we've published an authoritative Motor Home Buyer's Guide. It's more than 100 pages packed with facts and honest advice. Because we honestly believe the more you learn about motor homes, the better you'll like Winnebago. Before you invest in a motor home, spend $1.95 for this book. It could save you a lot of grief. And a lot of money.



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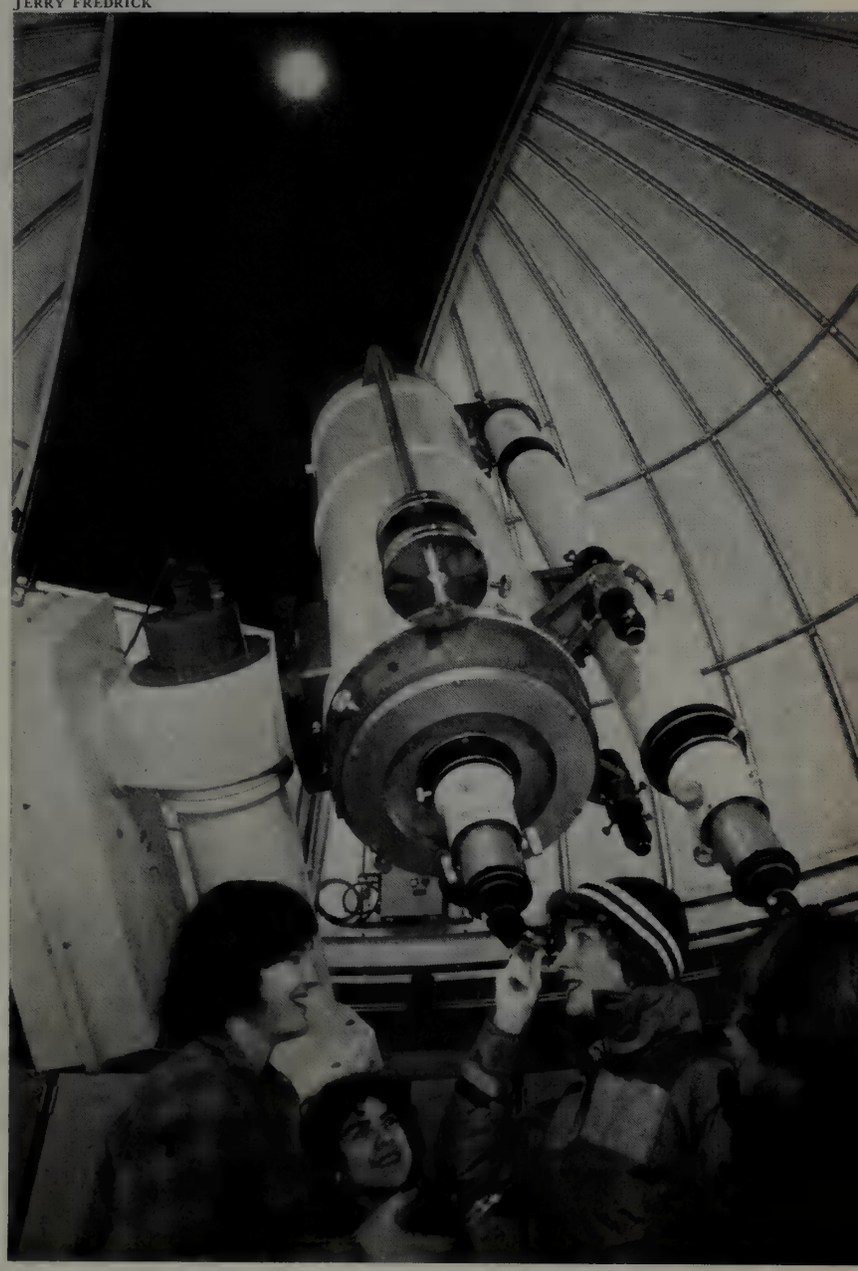
ɔot Observatory *in Oakland is the Bay Area's oldest, in 1913. Its 20-inch telescope is argest open year-round for public viewing*

Foothill College *planetarium, space exploration research are popular show topics*

JERRY FREDRICK



Diablo Valley College *has a new observatory with 18-inch refractor telescope (above) and small viewing scopes outside*

Bay Area star trek . . . where to see the celestial show this month

er a cleansing winter rain or brisk eze has swept the skies, the time is lt for stargazing. The crisp, clear nt skies possible this month provide right conditions for an observatory —heightened when you can also see anetarium show.

ır Bay Area planetariums offer star ws in addition to providing telescopes ou can observe the real thing. And e are some interesting celestial events vatch this month: Venus comes to its atest brilliance; Pluto, the outermost net of our universe, will briefly be closer to Earth than Neptune in February, increasing your viewing chances; and a meteor shower (Alpha Aurigids) has been predicted between February 5 and 10, though a bright moon may obscure it.

Here we list the four planetariums, titles and hours of their shows, and other observatory information. Note that telescope sizes listed refer to the diameter—not the length—of the scope; generally, the larger the diameter, the more powerful the instrument.

Observatories are open during planetarium hours—you don't have to see a show first—and viewing is free. Two hints: dress warmly for viewing, and let observatory personnel move the telescopes for you.

Chabot Science Center, 4917 Mountain Boulevard, Oakland. "Time and the Calendar," lasting 1½ hours; Fridays at 7:30 P.M.; adults, 50 cents; children, 25 cents. Reservations are advised; call (415) 531-4560. Observatory opens at 7 P.M. The center's 20-inch refractor telescope is the largest and its 8-incher is the oldest (1883) of the telescopes at these four complexes.

Diablo Valley College, 321 Golf Club Road, Pleasant Hill. Hour-long Friday programs

Alfresco opera *in San Francisco: Adler conducted and Sills sang for editor Hartley and 25,000 other opera fans*

Sills and Adler in the park

Research for our lead article on page 60 put travel editor David Hartley in touch with many people in the opera world. An example is the meeting shown here with soprano Beverly Sills and Kurt Herbert Adler (General Director of San Francisco Opera).

The occasion—a free Sunday afternoon concert in Golden Gate Park—gives an idea of the efforts being made to bring opera to the people. And for opera buff Hartley, the encounter with Sills and Adler was just the way our article describes opera in the West in 1977: informal and highly enjoyable. □

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this month: "Who's Garden Was This?" on February 4; "Our Emerging Solar System" on February 18 and 25; 7:30 P.M. admission free. Reservations are advised: call (415) 685-1230. The observatory is closed this winter; it has an 18-inch reflector telescope plus several small, preset, unmovable viewing telescopes outside.

Foothill College, 12345 El Monte Road, Los Altos Hills. "The Space Telescope," a 45-minute show; Fridays at 7:30 P.M.; adults, $1.25; children, 75 cents. The rotating-dome observatory has a 16-inch reflector telescope.

San Francisco State University, Physical Science Building, 19th and Holloway avenues, San Francisco. "Hamlet's Mill," lasting 1 hour; Wednesdays at noon; admission free. For required reservation, send a self-addressed, stamped envelope to the Astronomy Department at the planetarium's above address (zip code 94132), or call (415) 469-1659. The observatory has a 16-inch reflector telescope and four smaller ones; weekly viewing hours are Monday through Thursday from 7:15 P.M.

An insider's look at the San Francisco Symphony

At four open rehearsal sessions through May you can watch great conductors and artists at work and hear commentary on highlights of their programs. The rehearsals are early in the day, an advantage for those who can't attend evening performances. Seating is nonreserved (if you've always had a chance to sit in a box seat, here's your chance).

Scheduled sessions and conductors are as follows: February 9, Sarah Caldwell; March 2, Edo de Waart; May 4, Aldo Dorati; May 11, Seiji Osawa. Commentary begins at 9:15 A.M., rehearsal at 10 inside the Opera House on Grove Street and Van Ness Avenue. You can buy tickets ($4) at the door or at the usual ticket offices.

A walking tour of old Woodland, just off Interstate 5

From Dead Cat Alley to College Street, the history of the city of Woodland (20 miles northwest of Sacramento) is reflected in its venerable buildings and Victorian homes. Now there's a walking tour guide to explain the city's past.

The 33-page booklet lists some 50 structures with photographs and a map of the oldest part of town, dating from 18[illegible]. The booklet costs $1.50; you can buy it or send for one at City Hall, 300 First St., Woodland 95695.

Chinese murals in San Francisco

A major exhibit of replicas of ancient Chinese wall paintings is on display through March 13 at the Chinese Culture Foundation in San Francisco. The meticulous paintings are copies of murals from 10 tombs unearthed in China in the past 25 years.

They date from the first through the eighth centuries and present a colorful portrait of life during the time of

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JERRY FRI

Corrugated foothills *spread out from Mount Diablo; a summit hike gives you spectacular views. Here, the Livermore Valley forms a distant backdrop*

Han and T'ang dynasties. The paintings show scenes of farmers, soldiers, and imperial family members.

The exhibit is the first showing on the West Coast and will be open Tuesday through Sunday from 10 to 6, until 9 on Thursdays. Admission is $1 for adults, 50 cents for children under the age of 12 and senior citizens. The foundation is at 750 Kearny Street.

Atop Mount Diablo . . . hike to the best view for miles around

Standing at 3,849 feet, Mount Diablo is one of the highest peaks in the Bay Area. Its vantage point at the brink of the Central Valley affords a rare panora On the clearest days, usually after a r you might see the Farallon Islands to west, Yosemite's Half Dome to the ea

A short hike in Mount Diablo State P will take you to the choicest overlo Along the 4-mile Summit Trail you see both Diablo and Livermore vall out to the bay, and northeast to Delta. The trail climbs some 2,200 —a good warmup for later Si Nevada hiking. You can pick up the at the Little Rock parking lot on Sc Gate Road. To get to the park, take Diablo Road exit from Interstate H way 680 at Danville.

For travel planners, a February check list

Baja whale watching. Through early March you can join seven-day bus expeditions from Tijuana to view the migratory whales and water birds at Scammons Lagoon. You can enjoy desert scenery, a visit to the oasis and mission at San Ignacio, shell collecting, and clam digging. The $395 cost includes accommodations, meals, and transportation from Tijuana. For details, write to American Cetacean Society Voyagers, 1043 E. Green St., Pasadena, Calif. 91106. Other expeditions to view Baja's rock art are also planned.

Ski Europe. This month and next you can join eight-day ski packages to Switzerland for holidays at Davos, Veysonnaz, or Valbella-Lenzerheide. Air fare from New York, ground transportation, lodging, lift tickets, and ski school are included in the cost, ranging from $525 to $750. For details on these and other Alpine ski outings in Switzerland, Austria, France, and Italy, see your travel agent or write to Europe on Skis, 1414 Avenue of the Americas, New York 10019.

Ocean voyages. The Oceanic Society offers a series of one to four-week ocean expeditions. You can take part in shipboard life, learn seamanship, and participate in research and environmenta studies on these educational outings. Sixteen vessels based on the Pacific Coast in Hawaii, the Caribbean, South Pacific and the Aegean Sea sail to various destinations throughout the year. Prices range upward from $300. For details write to Oceanic Expeditions, 240 Fort Mason, San Francisco 94123.

Visiting Britain? 1977 is the year of the Queen's Silver Jubilee. Visitors in Britain will be welcome to attend the many local and official celebrations commemorating the event—agricultural shows, art exhibitions, theatrical performances, clan-gathering festivities, and sporting events. You can obtain a list of planned events by writing to the British Tourist Authority, 612 S. Flower St., Los Angeles 90017.

What a travel agent can do for you: Provide information on tours; reserve space on air, rail, bus, and steamship lines; make hotel, ranch, and resort reservations; take care of trip planning, including side trips and special events. Travel agencies do not charge for arranging transportation or package tours, but do charge for "custom" tour service.

Sunset School & Camp Directory

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Camps

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Sunset School & Camp Directory

Camps

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Camps

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Separate camps. On Pecos River, near Santa Fe. Boys—riflery, skeet, riding, swimming, fishing, tennis, pack trips, crafts. Girls—riding, fencing, swimming, tennis, dance, art, music, drama, nature, pack trips. Coed 15-17, Backpack Adventure. Two terms. 505/757-8772. **Newcomb S. Rice, Box 2450, Santa Fe, N.M. 87501**

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NAHELE KAI, INC. HAWAII The Island of Kauai. Girls and Boys 6-14 years. 2/4/6 wks. June 21-Aug. 9. Write for brochure, please include tel. no. Barbara C. Kermode, P. O. Box 618, Ph. (808) 955-2033, Honolulu, Hawaii 96809 ACA ACCREDITED: **Member of American Camping Association.**

Camps

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Boys and Girls Age 9-17
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SUMMER FUN & STUDY
Program I Oceanography, composition, dra math, art, study skills, snorkel and scuba di riding, pack trips, shop. Coed grades 2-9. T & six weeks. June 26–Aug. 6. **Program II** Sp classes in study skills, developmental reading, w SAT preparation, horsemanship, camping, rock clim soccer. Grades 8-12. June 26–July 29. WAIC & accredited. Equal opportunity admissions policy Specify program. **Catalog: Patrick W. Faverty, Box L, 723 El Paseo Rd., Ojai, CA 93023**

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June 26-July 23 • 2 Weeks • 4 Weeks
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Six We of Fu
For girls Ages 8-13 Boarding and Day. We o two 3-week sessions starting July 10 and end August 19 of sewing, cooking, drama, tennis, sw ming, dancing, art, nature study, riding, math ski gynmastics and tumbling, and indoor sports.
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Camps

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Season . . . Coed 8-15 • A small non-structured er Camping Program in the northern Sierra, near Almanor. WAIC and ACA Accredited. Exciting Activi- Learn English, Horseback Riding, Water Skiing, ning, Back Packing, Sailing, and more from experi- Staff. Pre and Post Specialty Weeks. Write for illustrated Brochure.
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Grades 4 through 8 — Small Classes
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Camps

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2-week Sessions—or longer

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Good care, good food, good fun, good friends, at a beautiful ranch-home convenient to the S.F. Bay Area. Program includes: Our own well-trained string of western horses; vaulting on horseback (exciting!); swimming; fishing, sailing; woodshop, ceramics; building; ecology, cooking; drama; archery; tutoring. **Write: Mrs. "B," 19103 Bear Creek Rd., Los Gatos, CA 95030. Or phone 408-354-7703.**

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Santa Cruz Mountains

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Camps

SUMMER 1977

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Name _____
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Street _____
City _____ St. _____ Zip _____

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On Cobb Mtn., Lake Co., Calif.

Fun of farm, forest, mountain, stream — where Pomo Indians camped. Sleep in tee-pee tents by stream — home of beaver, trout, turtles, frogs; **Western, English riding, tennis,** NRA riflery, archery, farm chores, building, drama, crafts, ecology, nature; swimming, fishing, sailing and canoeing in camp pond, stream or lake; **Water skiing, canoe,** pack & nature trips available. Trans. TO camp incl.
Special programs, ages 7-9, 10-11, 12-14.
Leadership training program (CILT) ages 15-17
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Index of Directories

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

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WESTERN GROCERY DIRECTORY beginning page 128
SHOPPING CENTER beginning page 174

Sunset School & Camp Directory

Camps

CLOVERLEAF RANCH SUMMER CAMP

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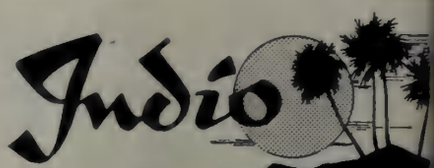

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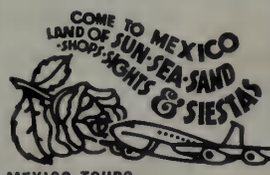

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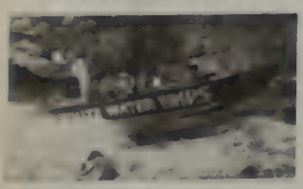

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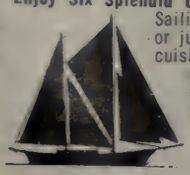

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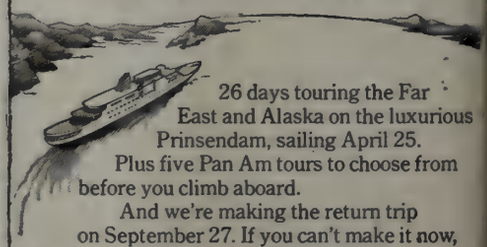

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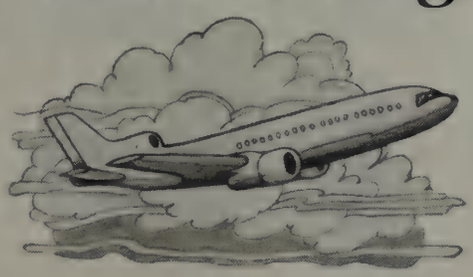

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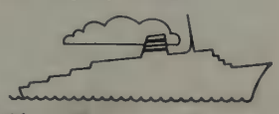

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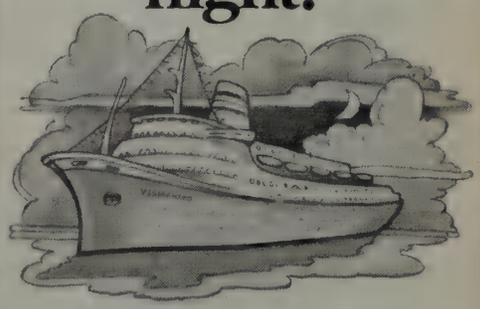

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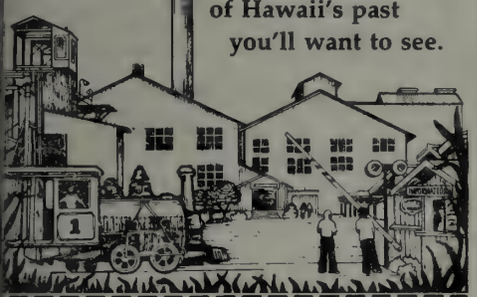

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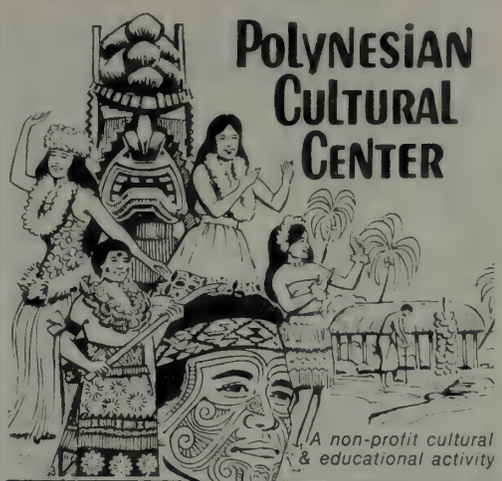
Hawaii



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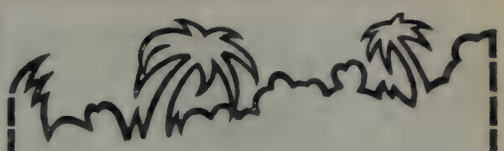

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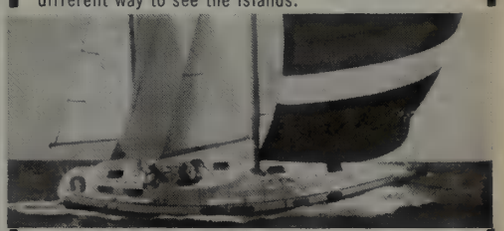

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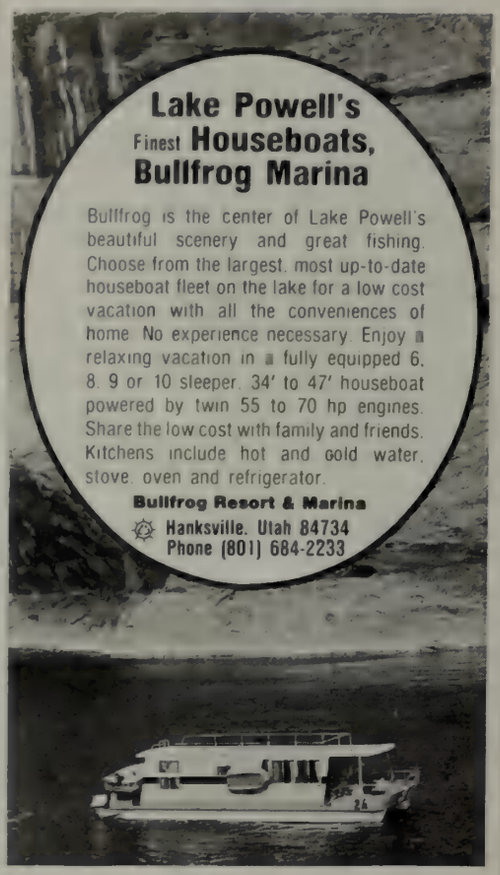
Houseboats



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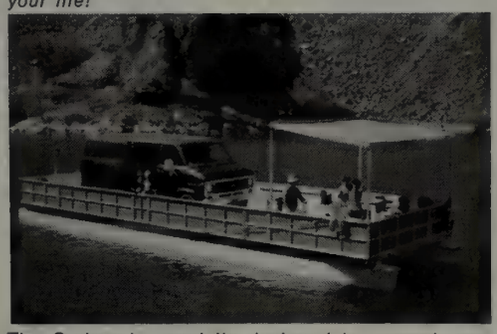

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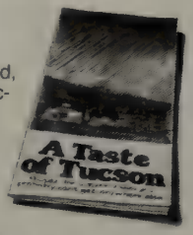

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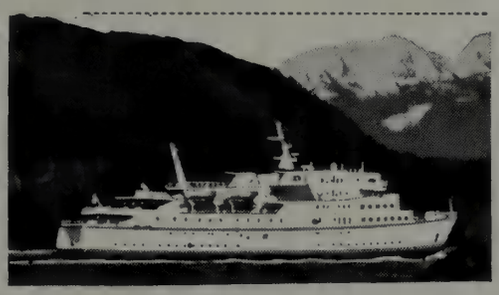

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CRAIG AURNESS

On warm days, *you can dine outdoors in courtyard of Stratton's Restaurant*

New life for a Westwood landmark

Like a village within the Village, Westwood's old Masonic Club building, now called Contempo Westwood, is well entrenched in its new life as a shopping, dining, and arts center. The massive old tile-roofed structure, built of concrete blocks that look like chunks of broken sidewalk, is on Le Conte Avenue across from the UCLA campus.

Here you'll find the 500-seat Westwood Playhouse, a restaurant in the old fireplace room, several large showrooms of home furnishings, an African arts shop, a handcraft shop, and a gallery of Eskimo art. The building is open Monday through Saturday, 10 to 5:30. Stratton's Restaurant serves lunch and dinner Tuesday through Saturday, brunch only on Sunday. □

From land grant times *to theater boom, upstairs exhibit traces Westwood's growth*

Rush the season... a little.

Thoughts and dreams of summer things are in her head. And none too early. We'll all want to be ready.

So give an early thought to Tropitone . . . probably the finest casual furniture available. So rugged, major resorts like the MGM Grand prefer it. So stylish, designers of import recommend it. Yet not too terribly expensive.

Consider the Cantina and Pagoda styles at left, or the Marrakesh chaise below . . . just 3 of 7 exacting collections in your choice of 18 lasting colors.

Rush the season a little by sending a dollar for our new 54 page color catalog. Tropitone Furniture Co., Inc., P.O. Box 3197, Sarasota, Florida 33578.

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GLENN CHRISTIANSEN

Bunny hill *at Alpine Meadows has a course for slow-gliding toddlers*

Ski lessons for the very young

Small-fry ski lessons and day-care facilities are two answers to the needs of skiers who are also parents of young children. While most ski areas offer lessons to 7 or 8-year-olds, programs for younger ages are somewhat harder to come by.

We surveyed 21 ski areas in California's Lake Tahoe region and found that a third have facilities geared to children under 6. The first three we list have classes for skiers as young as 3 or 4 and also offer day-care services for small nonskiers. The fourth has a similar program for older children, and the last three offer ski lessons only.

All programs are supervised. Unless noted, prices cover only lessons or day care, with meals and equipment rental extra. Programs and services are subject to change; write ahead for details and double-check when you arrive.

Alpine Meadows, Box A.M., Tahoe City 95730. Classes for ages 4 and up; half day $8, full day $11. Day care, ages 2 through 8, $10; indoor activities, sledding, snowplay area.

Papoose Ski Area, Box 2008, Olympic Valley 95730. Classes for ages 3 and up; half day $7.50, full day $12.50. Includes rentals, snacks, indoor crafts activities.

Tahoe Ski Bowl, Box 305, Homewood. 95718. Classes for ages 3 and up; half day $6, full day $12. Baby-sitting, $1 per hour.

Northstar-at-Tahoe, Box 129, Truckee. 95734. Classes for ages 5 and up; half day $6, full day (with lunch) $12.

Heavenly Valley Ski School, Box A.T., South Lake Tahoe 95705. Lessons for ages 5 and up; half day $7, full day $11.

Sierra Ski Ranch, Twin Bridges 95735. Lessons for ages 5 and up; half day $7, full day $10.

Squaw Valley, Box 2278, Olympic Valley 95730. Lessons for ages 4 and up; half day $7, full day $10. □

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And for American drivers who seek the best of both worlds, that's important.

On one hand, Seville is a brilliant road car. With Variable Ratio Power Steering. Four-wheel disc brakes. And it's the first American production car to incorporate a 5.7 Litre, Electronic-Fuel-Injected engine that utilizes an on-board analog computer as standard equipment. In fact, it is designed and engineered to be one of the finest production cars built anywhere in the world.

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On the other hand, Seville is a car of classic elegance. Understated. But never, never spartan. Quite the opposite. Seville is a car complete — with almost every luxury feature standard.

From Automatic Level Control to Automatic Climate Control (that maintains the temperature you select—winter and summer—with a single setting).

Your passengers will enjoy the quiet luxury of the Seville interior. The soft, tailored upholstery. And the superb sound from your AM/FM Signal-Seeking Stereo Radio with a Scanner and Power Antenna.

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When people experience Seville for the first time, they are impressed by many things. But perhaps by none more than the ride. And there is good reason for this. The Seville ride is of paramount concern in the Cadillac engineers' quest for perfection.

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There are Teflon® liners in the rear springs to reduce friction. Large-diameter Pliacell shock absorbers, as on the Cadillac Limousines. Isoflex body mounts for a soft but firm ride. Match-mounted wheels and tires for reduced deflection and increased rolling smoothness. And to make the Seville ride even better, Cadillac engineers completely retuned the suspension system—part by part, assembly by assembly.

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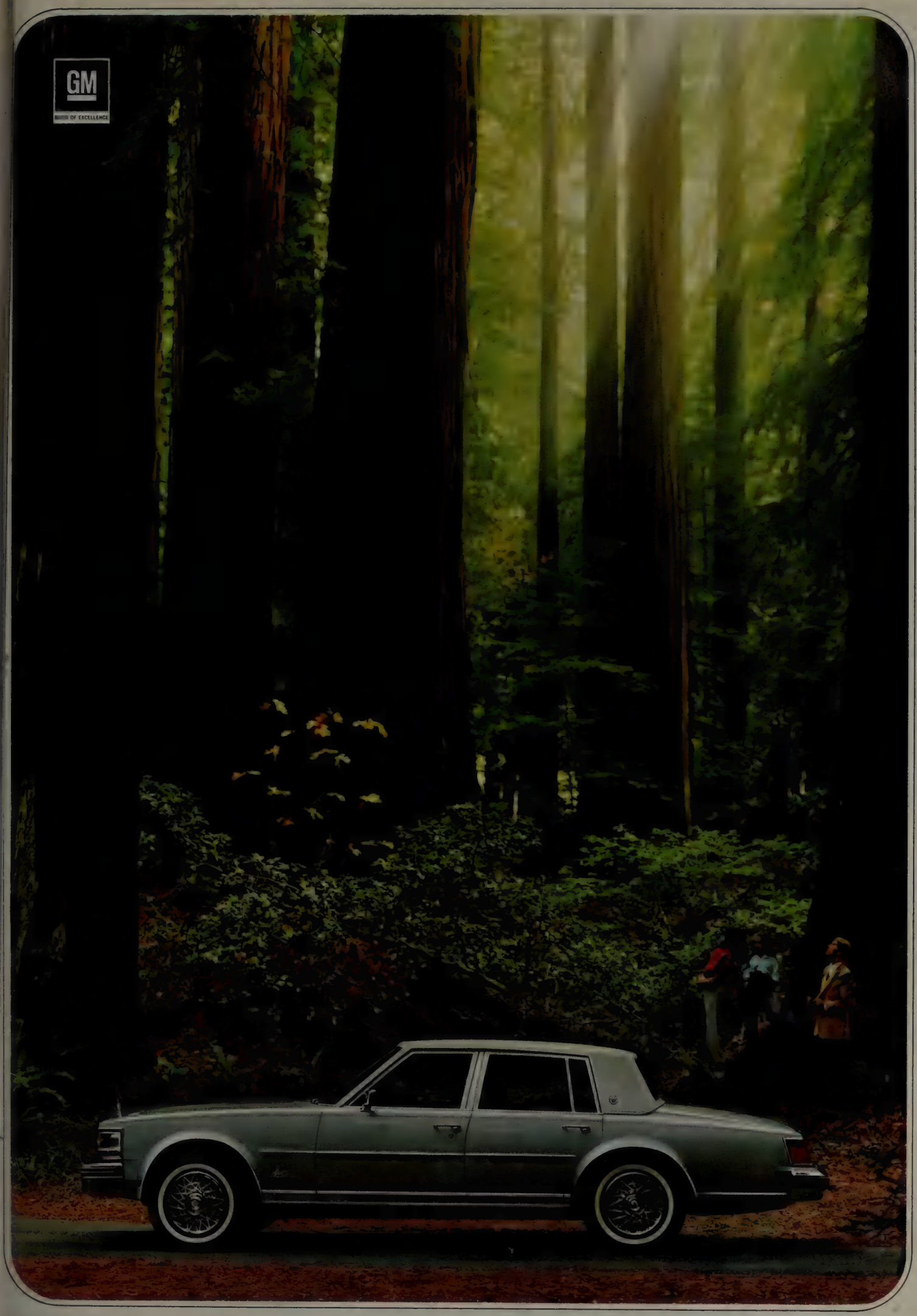
Of course, only you can judge the results of all this—in the totality of the Seville effort. We can tell you Seville just might be the best-performing car you've ever driven. Yet, to appreciate the Seville experience, you must drive it. Feel its responsiveness. Corner it. Maneuver it.

Whether you buy or lease, your Cadillac dealer earnestly invites you to drive Seville for yourself—by yourself. It's really the only way.

Seville
BY CADILLAC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DARROW M. WATT

London's *brass-rubbing studio at St. James Church has 20 replicas; choose a big project (above) or small (below)*

Brass rubbing in Britain . . . 17 places

Rubbing medieval brasses is so popular in England—especially among tourists—that until recently you had to stand in line or make an appointment to use a brass. But now 16 churches and museums in England and a church in Scotland have studios where, for a small fee, you can make these wax-on-paper imprints from replicas of 13th to 17th-century brasses. The originals were used mainly to mark the graves of the wealthy.

Most of the centers are conveniently located at traditional tourist destinations; appointments aren't necessary. The project itself is easy and takes only a few minutes. Instruction and all materials are provided. You can buy cardboard tubes for carrying or mailing rubbings.

You make a rubbing simply by taping paper over the flat engraved brass (or replica) and rubbing with a wax block until the shape appears.

Several wax colors and types of paper

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Preparing Turkish Mokka in Bagwells 2424

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Hyatt Hostess directing hotel guests

Hawaiian quilt-making in activities area

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An invitation from a rock group.

Come. Let us sing you a song of Eastern Oregon. It's music for the soul, a melody for your mind.

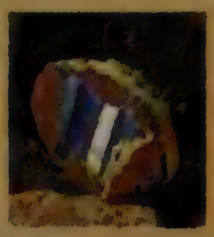
And the lyrics are beautiful. They sing not of a symphony of the city, but of the simple joys of coming back to life again in Eastern Oregon.

Breathing in pure, sweet mountain air, perfumed with the scent of fresh juniper. Wading in an ice-cold crystal-clear brook. Or watching silver stars pop out of a black velvet sky.

You see, Eastern Oregon is not like the tall green trees and long, silver beaches you normally think of when you think of Oregon.

It's an entirely different world. High plateau country. Flat rock sagebrush country. Indian country. Sky high mountains. And deep box canyons.

All rolled into one marvelous visual poem.



R.S.V.P.

For more information, we invite you to see your travel agent or mail us the coupon.

Travel Information, Room 907
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Salem, Oregon 97310

Thanks for the invitation. Please send information about things to do in Oregon.

Name _____
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OREGON

Consider yourself invited.

A poem called Eastern Oregon. Come fish our rivers. Feed our chipmunks. Listen for our sounds of silence. Pan for gold along our rivers like the sons of the pioneers. Stay in one of our historic old lodges. Or kick up your heels in one of our fancy dude ranch resorts. Sample our Oregon hospitality and ranch style food. Look for antiques in a ghost town. Or look for precious stones like rubies and agates and thunderegg.

But most important, look for you.

Because Eastern Oregon is probably the best place in Oregon to find yourself.

So come.

All our igneous, sedimentary, and metamorphic friends will be watching over you while you're here.

And we think we could make beautiful music together.

re available. The cost depends on the ize of the rubbing you make, but it sually runs from about $1.75 to $20. 'art of the money goes for restoration of original brasses.

Each center has at least 20 replicas, including many of famous and locally important brasses. The Bristol center, for example, has some of local merchants from medieval times; at Winchester, the replicas are of brasses in the college chapel; in London there is a large national collection at Westminster Abbey.

From London to Edinburgh

Here we list the centers and the hours and months they are open; note that only a few are open year-round.

Bristol—St. Nicholas Church and City Museum, Baldwin Street. Open year-round, 10 to 5; closed Sunday.

Chichester—The Cloisters, Chichester Cathedral. Open June 23 to September 25, 10 to 5 daily.

Coventry—Coventry Cathedral. Open May 22 to September 4, 10 to 5; closed Sunday.

Dodington—Dodington House, M4, Gloucestershire. Open May 27 to September 5, noon to 6 daily.

Edinburgh—Canongate Tolbooth, Royal Mile. Open July 14 to September 30, 10 to 6; closed Sunday.

Gloucester—Gloucester Cathedral. Open May 22 to September 4, 10 to 5; closed Sunday.

Lake District—Moot Hall, Keswick. Open June 28 to September 12, 10 to 6 daily.

London—Westminster Abbey and St. James Church. Both open year-round, 9:30 to 6; closed Sunday.

Marlborough (between Reading and Bristol)—St. Peter's Church. Open June 10 to August 5, 10 to 6 daily.

Nottingham—St. Mary's Church, High Pavement. Open June 16 to August 14, 10:30 to 6 Monday through Saturday, 2 to 6 Sunday.

Oxford—University Church, High Street. Open year-round, 10 to 6 daily.

Stratford—Royal Shakespeare Theatre, Avonbank Gardens. Open April 10 to October 1, 10 to 5 daily.

Sunderland (near Newcastle)—Sunderland Museum, Borough Road. Open August and September, 10 to 6 Monday through Friday, noon to 6 Sunday; closed Saturday.

Winchester—Winchester City Museum. Open May 28 to September 30, 10 to 5 daily.

Windsor—Windsor Parish Church. Open year-round, 10 to 6; closed Sunday.

York—Sir Thomas Herbert House, the Shambles. Open June 10 to September 5, 10 to 6 daily. □

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When people from the West look for a great vacation—they look East.

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They fly to Miami. From Los Angeles. San Francisco. Phoenix. Or Denver. On one of our money saving Air/Sea Cruises. And they're off on one of the best vacation values going.

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And for 14 days you'll relax and revel under the ubiquitous Caribbean sun. Swim in a refreshing salt water pool. Sip cool refreshments atop the top bar in the Caribbean—the Viking Crown Lounge, 10 stories above the sea.

When it comes to dining, you'll give our chef round after round of applause. And for after dinner entertainment, you'll see an All-Star Varity show that's rated four star.

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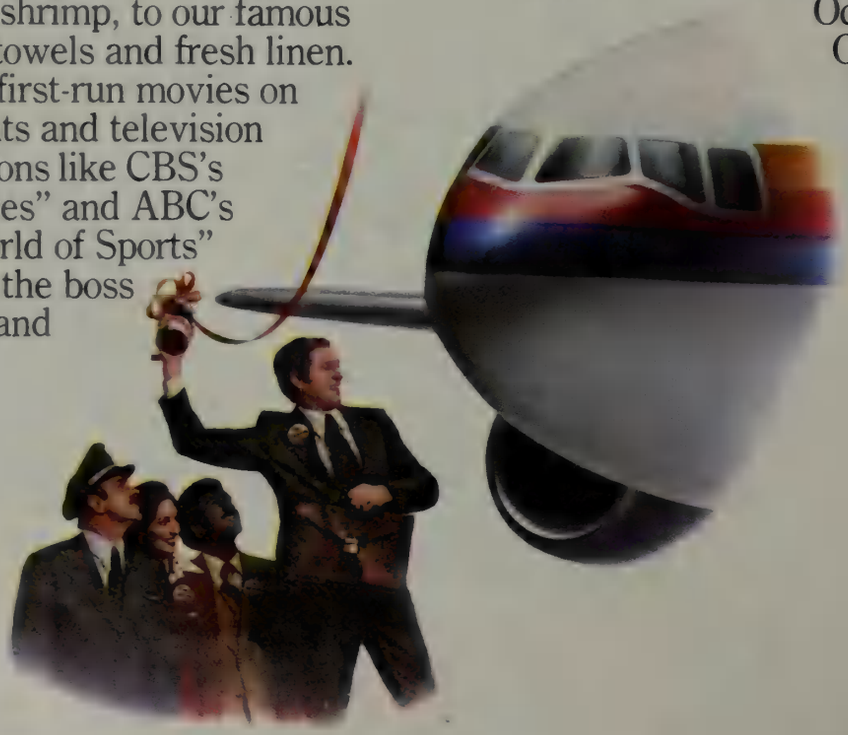
Call United or your Travel Agent and ask for "Ocean to Ocean" Service. Only on United. Partners in Travel with Western International Hotels.



Fly the friendly skies of United.

UNITED AIRLINES

Orienteering. You run a race across country with map and compass

Navigating on land with the aid of map and compass is more than a skill for outdoorsmen. For the past several decades in Europe it's been the essence of a sport called orienteering. Hikers or joggers, using map and compass, break their own trails as they race cross-country past a series of checkpoints to a finish line.

The sport is just beginning to attract enthusiasts in the West. There are active orienteering clubs in Eugene and San Diego. A more informal variation of the sport, known as wayfaring, is easier to organize and enjoy on your own, and this month several parks in the West will offer map and compass programs to help get you started.

Wayfaring—orienteering on your own

Wayfaring is a family-oriented, noncompetitive activity that can help sharpen your map and compass skills. You can try it as part of a hike in any park with enough open space to wander in. All you need is a compass (see "Choosing a Compass" in the January *Sunset*) and a 7½ or 15-minute USGS topographic map. Look for topo maps in mountaineering shops, or write to the USGS, Box 25286, Federal Center, Denver, Colo. 80225, for a catalog of maps you can order (also ask for free booklets on map and compass technique).

For the first outing, keep the course simple, in a park you're familiar with. You should choose three or four checkpoints, using landmarks indicated on the map, that will lead you on a loop about a mile long. Checkpoints can be structures, junctions of two streams or roads, cliffs, lakes, or other landmarks.

DON NORMARK

Before start *of Eugene race, contestants check master maps for updated information*

The challenge is to study the map's topography, then decide the best route between checkpoints. Check park regulations to see if off-trail hiking is permitted (most national parks and many California state parks prohibit it); also ask about hazards such as poison oak, mine shafts, and, in some foothill areas, rattlesnakes.

Here are the parks in the West that have scheduled map and compass clinics or beginners' orienteering programs this month. Bring your own compass.

Seattle. *Luther Burbank Park* on Mercer Island: February 25, film and seminar at 7 P.M. February 26, field day starting about 9 A.M.; meet in Community Building.

Discovery Park: February 5, free introductory class at 9:30 A.M. in visitors center inside gate off Government Way. March 8 and 15, map and compass class at 7:30 P.M. March 19, field day at 9:30 A.M. (fee is $10 with maps, compasses, and booklet provided); call 625-4636 to register.

Wayfaring is permitted at the above parks, as well as McDonald Memorial Park near Carnation and Lake Sammamish State Park.

Portland. Wayfaring is permitted in Forest Park and the Camassia Natural Area.

San Francisco Bay Area. *Midpeninsula Regional Park District*: March 5, basic map and compass work with possible field exercises. Write to the park office at 745 Distel Dr., Los Altos 94022 for registration and details on time and location. *Tilden Park*: March 20, map and compass basics taught in the field from 9 to 1; meet at the Environmental Education Center.

Wayfaring is permitted in most East Bay Regional Parks and several Midpeninsula Regional Parks (check with their offices). The Golden Gate National Recreation Area also permits wayfaring and may offer map and compass courses later this year.

Los Angeles. *Griffith Park*: February 26, map and compass basics and field practice at 10 A.M.; call 665-5188 for location.

Wayfaring is permitted in Griffith Park, Castaic Lake State Recreation Area, Frank G. Bonelli County Park. In Orange County practice at Ronald W. Caspers Regional Park at Starr-Viejo Ranch.

San Diego. *Balboa Park*: February 19, San Diego Orienteering map clinic and field work, 1 P.M. at Municipal Gym, near corner of Park Boulevard and Presidents Way.

Phoenix. *Papago Park*: February 12, orienteering meet for novice and intermediate runners at 9 A.M., beginners' map clinic at 8 A.M.; meet at north end of zoo parking lot ($1 registration fee).

Wayfaring is permitted at Papago Park or larger Maricopa County regional parks.

Orienteering races—novice to expert

Orienteering meets were first organized in Sweden in 1918 as an exercise for youth groups. Today the International Orienteering Federation operates in 23 countries, and the sport has been proposed for the 1980 Olympics.

BILL ROSS

Orienteering *competitors in San Diego check their course on way to next station*

"Punching in" *is proof you found the checkpoint*

At the meets in Eugene and San Diego pictured here, you choose from courses of varying difficulty. (Because contestants are mostly out in the countryside, it's not really a spectator sport.) Courses for first-timers include basic instruction in use of map and compass. The average beginners' course covers about a mile, passing three or four checkpoints.

Courses gradually get longer and more challenging. An experts' race may be about 5 miles long over difficult terrain, with up to a dozen checkpoints.

For information on the two clubs, write to: University of Oregon Orienteering Club, c/o Garth Jackson, 762 E. 17th St., Eugene 97401; or San Diego Orienteering, c/o Bill Gookin, 5946 Wenrich Dr., San Diego 92120.

Find out more from the U.S. Orienteering Federation, Box 500, Athens, Ohio 45701. Or, contact Orienteering Services U.S.A., Division of Silva Co., 2466 N. State Rd. 39, LaPorte, Ind. 46350. □

JERRY FREDRI

The view *and the soft warmth of the late sun are excuses enough for a pause along Skyline Trail near Inspiration Point*

The Skyline Trail along the East Bay ridge opens this month . . . for hikers, bikers, riders

Running the ridge of the hills from Richmond on the north to San Leandro on the south, the new East Bay Skyline Trail is practically complete. Finishing touches were being applied at press time, and park officials assured us the trail would be open this month.

Paralleling one of the most urbanized regions of the Bay Area, the 27-mile-long trail offers opportunities for cyclists and equestrians as well as hikers. Yet it's surprisingly wild in places. It takes you through a variety of native California habitats ranging from grassy hillsides to chaparral thickets; you'll pass open stands of oak and madrone dotted with an occasional pine, and valley groves of magnificent redwoods.

As it meanders in and out of five regional parks and a botanic preserve (shown in light green tones on the map), Skyline Trail also edges the vast holdings of the East Bay Municipal Utility District (darker tones), forming the backbone of a rapidly expanding trail system.

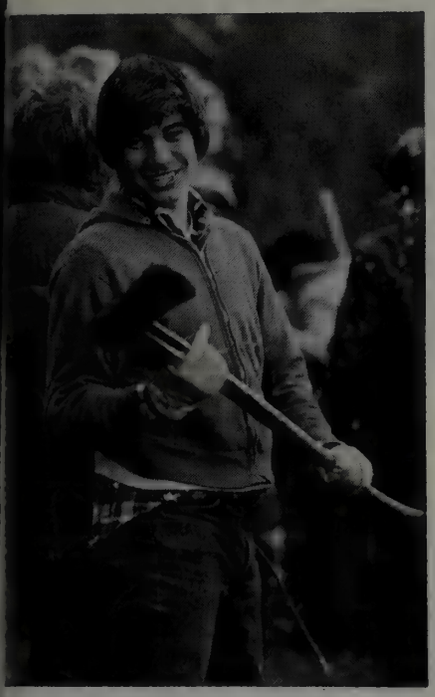
Hikers with stamina could cover the entire 27 miles in a day, but anyone can leisurely sample the main route in combination with branch paths in each park to form a series of loop outings. Easily accessible by car along most of its length (we've marked the parking areas on our map with a circled P), the trail is still surprisingly free of conflict with automobiles—it crosses only six roads.

Bridging the gap between Tilden and Redwood. Although much of the route has been open in existing parks on the north and south for a number of years, the section between Tilden and Redwood parks was a critical link. It took a decad of negotiations with landowners for th district to acquire a narrow corridor o land linking the system.

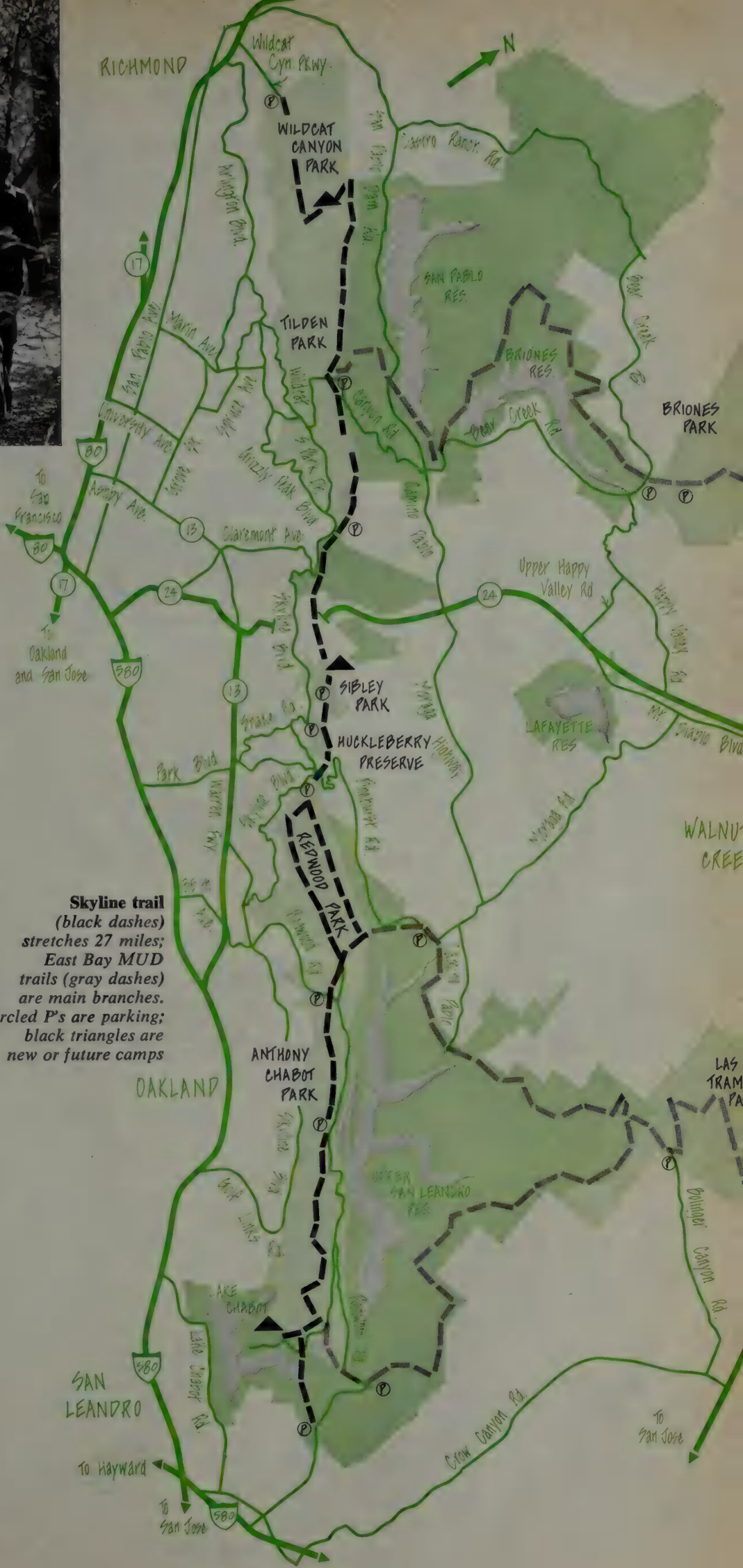
The next big hurdle was gathering man power to build and mark the trail, bu this aspect of the project was low on th district's list of priorities. Public interes in the trail was increasing, however Over the past few years, District Trail Coordinator Jana Olson scheduled more than a dozen "trail days" in which loca scout troops, horse clubs, conservatior and hiking groups, and other interestec Bay Area residents turned out with picks, shovels, pruning shears, and axes tc spend weekends carving out sections of trail. At our deadline, park district crews were finishing the last technical work.

Final cost for materials and labor will

Curved *madrone trunk serves as impromptu bench for walker waiting while straggler catches up*



Volunteer *helped clear brush on final "trail day" last November*



Skyline trail *(black dashes) stretches 27 miles; East Bay MUD trails (gray dashes) are main branches. Circled P's are parking; black triangles are new or future camps*

probably be about half the usual price for such projects—mostly due to the enthusiasm of the volunteers, who did almost 80 percent of the work. But fiscal savings are only a side benefit. Without the public interest and commitment to the trail concept, coupled with the willingness to work for it, Skyline Trail would still be on the drawing boards.

Sampling the trail, north to south. You can pick up the trail east of Richmond at the entrance to Wildcat Canyon Park. From here the Nike Trail climbs about 700 feet to the gently rolling East Bay Hills ridge—at about the 1,000-foot elevation. Near the ridge is the location of the first of two proposed trail camps, shown as black triangles on our map. (The second will be in Sibley Park; another, Las Cumbres near Lake Chabot, is

The 14-day Alaska odyssey.

The Prinsendam is registered in Netherlands Antilles, the Monarch Star in Panama.

Experts plan the ideal tour.

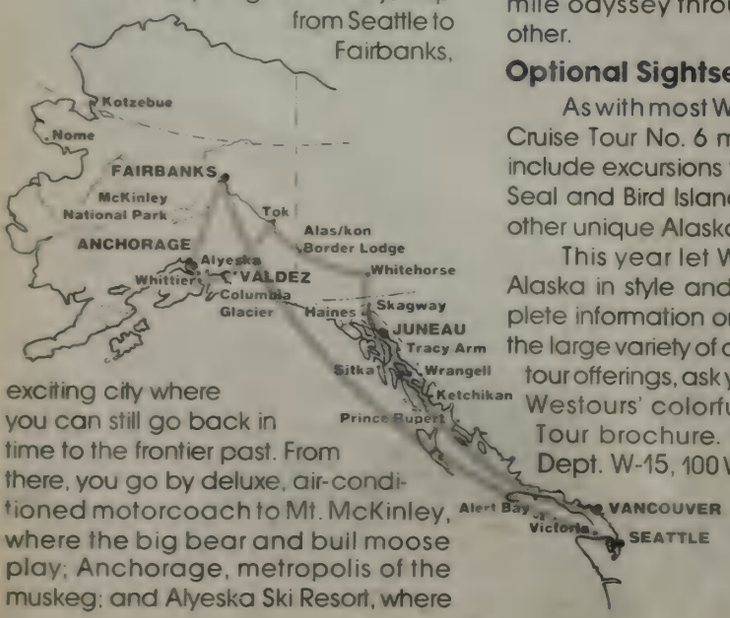
If you've been wanting to visit Alaska, here is a trip that will give you a feeling for its immensity and a close-up look at its scenic grandeur, its wildlife, its people and cultures.

It's a vacation "packaged" by Westours, the leading travel organization in Alaska, which offers a wide variety of distinctive and memorable Alaska tours ranging from 9 to 25 days in duration. All are planned from Westours' first-hand experience (nearly 30 years of it), and with their showman's sense of what people want to see and do.

Perhaps the ideal tour—and one you can take with only a two-week vacation to review with your travel agent—is Cruise Tour No. 6.

Explore the Great North Country.

The itinerary begins with a jet trip from Seattle to Fairbanks, exciting city where you can still go back in time to the frontier past. From there, you go by deluxe, air-conditioned motorcoach to Mt. McKinley, where the big bear and bull moose play; Anchorage, metropolis of the muskeg; and Alyeska Ski Resort, where a chairlift ride offers an unforgettable, 8-glacier view of Alaska.



See Columbia Glacier and the Trail of '98.

Next, it's on to Valdez, "Switzerland of Alaska," via a cruise through Prince William Sound for a close-up look at the jagged, 400-foot-high ice cliffs of massive Columbia Glacier.

Then, back on the road to Whitehorse, where you follow the historic Trail of '98 to Skagway via the narrow-gauge White Pass & Yukon Railroad.

Cruise the Inside Passage

Finally, the perfect way to end your vacation: a 4-day, 1,000 mile voyage through Glacier Bay and the spectacular Inside Passage aboard a luxury cruise ship from Skagway to Vancouver, B.C.

All too soon it's over—this 4,000-mile odyssey through a land like no other.

Optional Sightseeing Trips.

As with most Westours itineraries, Cruise Tour No. 6 may be modified to include excursions to the Arctic, Pribilof Seal and Bird Islands, the Katmai and other unique Alaska attractions.

This year let Westours show you Alaska in style and comfort. For complete information on Cruise Tour 6 and the large variety of other fine cruise and tour offerings, ask your Travel Agent for Westours' colorful, 32-page Cruise-Tour brochure. Or write Westours, Dept. W-15, 100 West Harrison Plaza, Seattle, Wa. 98119. A postcard will do.

JERRY FREDRICK

Why walk *when you can skip?*
This was along one of the long-established trail sections in Redwood Park

open for auto and backpack camping.)

At the ridge top you join Nimitz Way, a paved road that once led to Nike missile bases in the hills. Now closed to traffic, it's a 4-mile bike route popular with 10-speed racers and slower bikers running their dogs. Access to this stretch is the parking area at Inspiration Point on Wildcat Canyon Road.

From this parking area the trail continues south as an official 2½-mile dog run. Here you can let Rover off his leash while you stroll and enjoy clear-day views to the bay and Briones Park.

You leave Tilden Park and the dog trail at Grizzly Peak Boulevard, where the trail crosses a small road and dips down an open hillside. The stumps are eucalyptus left from the 1972 frost that killed thousands of trees. This is the newest section of trail, and it should now be open the entire 4 miles through Sibley Park and Huckleberry Preserve to the northern edge of Redwood Park.

From the parking area on Skyline Boulevard near Pinehurst Road, the trail heads south until it branches into the West Ridge and French trails. Part of the Skyline Trail, they form a delightful 7-mile loop through open meadows and hillsides, oak and madrone forests, and stands of redwood.

Continuing south, Skyline Trail ducks through wooded groves and open hillsides. Branch trails lead to Upper San Leandro Reservoir and Lake Chabot.

Detailed maps of the entire trail should be available early this month at the Tilden Park Environmental Education Center, or from the East Bay Regional Park District, 11500 Skyline Blvd., Oakland 94619; telephone (415) 531-9300. □

Introducing Ranchero/77.

For the man in charge.

FORD

FORD DIVISION

1977 Ford Ranchero—made for the man in charge.

Outside, the Ranchero has been completely redesigned. Call it rakish, proud, daring, whatever. With its new GT-like appearance, vertically stacked headlamps, choice of 6 new exterior colors, and swooping shape . . . its new looks are bound to get looks.

Inside, Ranchero lets you settle back into a world of performance options, new seat fabrics and optional leather-wrapped steering wheel or day/date analog clock. Most of all, Ranchero gives you the solid feeling of a well-built driving machine.

The new redesigned Ford Ranchero. For the man who takes command of his life.

Built Ford Tough

93 out of 100 of all Ford Trucks registered over the last 12 years are still on the job.

The Hawaiian Islands. You'll get the feel of them the moment you come to them. Deep sweet colors on the land, cooling tradewinds to rustle the palms, a sun that warms your heart and tans your hide.

Here in the middle of a big blue sea, good feelings come flowing like sunlight in the surf. We're a sentimental bunch. No one knows how it happened, but that's the way we are.

Maybe it springs from the beauty all around us. Maybe it comes from within ourselves. But somewhere here in a rainbow blend of the Pacific's peoples, cultures and customs, we've come upon an ancient secret: it's silly to be a stranger, it's fun to be a friend.

Maui is two islands for the price of one, joined by a green isthmus featuring a lofty volcanic spire called the Iao Needle. On the western island is the town of Lahaina, once the Pacific's whaling capital. It used to be rowdy: the fort was used to protect the missionaries from the whalers. Today the town is full of intriguing shops and places to eat. Kaanapali, three miles of golf, tennis, sandy beach and deluxe resorts, is nearby, and there's a restored sugar cane train that connects to Lahaina.

The eastern island is dominated by Mt. Haleakala, a colossal dormant volcano. It's big enough to drop Manhattan inside. At the farthest end of the island, past countless waterfalls, is the sleepy, enchanted village of Hana. See it, but don't wake it.

Hawaii is the big island, as large as the rest put together. So what do we call it? The Big Island. It's got the two biggest mountains — measured from ocean floor to sky — in the world. Mauna Kea is often capped with snow, but Mauna Loa plays with fire. It's part of Hawaii Volcanoes National Park, where Kilauea Crater still smokes angrily from the 1975 eruption.

At charming Hilo, not far away, you'll find Rainbow Falls, fine hotels and millions of orchids. Beaches around the island give you a choice of white, green, or black sand. Kona has magnificent billfishing, and the whole western coast is filled with great golf and tennis at luxury resorts.

All in all, you'll find more sights, excitement and history on Hawaii than you can imagine. The Big Island.

Molokai is less diverting but in lots of ways just as delightful. It's quiet and it's lovely, it's old-time and comfortable. You can take a trail or a pack-mule train and see wild goats and deer. Sequestered here and there on the island are fine hotels. Kaunakakai (remember the song about the cockeyed mayor?) is the capital, population 1,070. If you want to get away, the getting's good on Molokai.

Lanai is a giant pineapple plantation with one tiny hotel. Most of Lanai is privately owned, but you're welcome there anyway. Beachcomb on a shipwreck shore, hunt for legends and ruins, swim at pretty Hulopoe Bay. Do what you want — you're on your own.

Oahu is the gathering place, the big time. Honolulu is one of the most appealingly cosmopolitan cities in the world. Concerts and museums, wondrous cuisines; temples and shrines and our own Royal Palace. Waikiki Beach, lazing in the lee of Diamond Head, spends its days soaking up the sun. Come nightfall, it lights back the sky with shows and celebration.

All around the island, Oahu is loaded with wonderful things to see and do. And so, in each one's separate way, is every island. Ask your travel agent.

Then come get the feeling for yourself.

FEEL

WHY HAWAII MAKES YOU FEEL SO GOOD.

It's called the Aloha Spirit.

It brings us all together and makes us much alike. Yet there is wonder in our difference. Each of our islands is different, too.

Kauai, geologically, is the oldest. Many say it's the most lush, probably because it's had so long to grow. The most beautiful spots on earth may be Hanalei Valley and the northshore beaches; movie crews come here to film Paradise.

Captain Cook first landed at Waimea, and Hawaii's first sugar mill still stands at Koloa. You'll love the riverboat ride to Fern Grotto. High on Mt. Waialeale are fantastic rain forests. Waimea Canyon and the Na Pali Cliffs are so spectacular we're speechless.

THE HAWAIIAN ISLANDS

More than a pretty place.

On behalf of the people of Kauai, Oahu, Maui, Molokai, Lanai and the Big Island of Hawaii.

Feel wanted

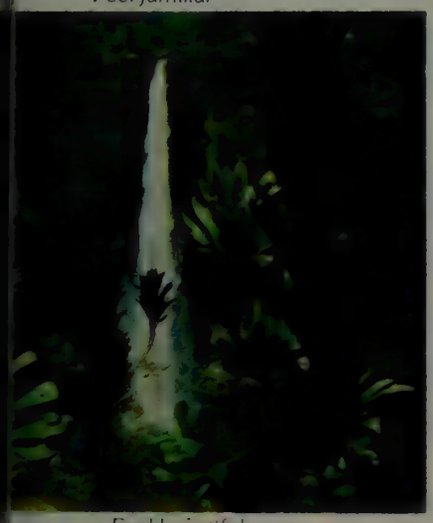
Feel festive

Feel friendly

Feel familiar

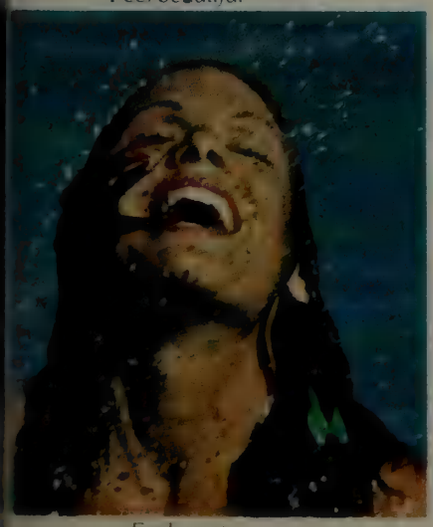
Feel accomplished

Feel adventurous


Feel beautiful

Feel romantic

Feel casual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Madison Mountains *cluster around Big Sky of Montana, newest and largest resort*

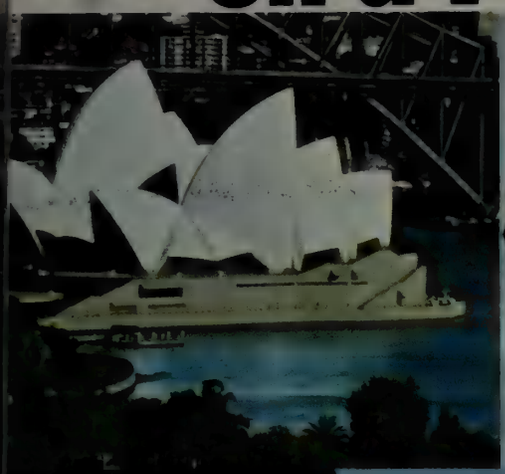
Ski Montana . . . uncrowded, lots of powder

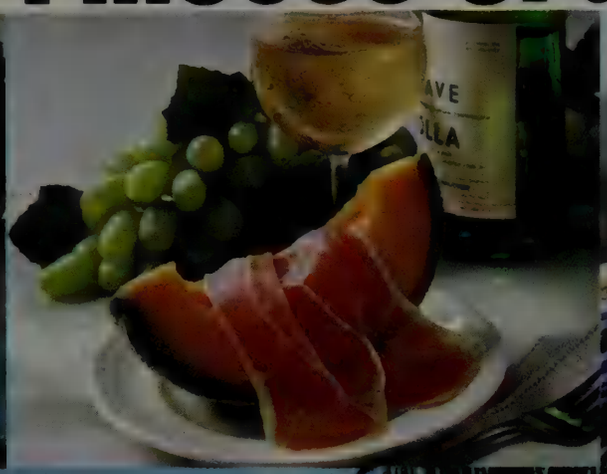
The Rocky Mountains cut a wide swath down Montana's western half, leaving a trail of high, jagged peaks and gentle bowls. In wintertime, the mountains are covered with some 300 to 500 inches of light, dry powder snow that should attract huge numbers of skiers.

Yet the crowds that plague other renowned powder snow areas have yet to discover Montana. In its mountain ranges that descend on either side of the Rockies there are five major resorts—one is brand new—where the skiing is uncrowded, varied, and challenging.

Montana is so far north that the skiing season lasts longer than at other popular areas; great powder into late April is not uncommon. Prices of lift tickets, as well as accommodations and meals, are generally low. The three to seven-night

SOUTH PACIFIC
on a Princess Cruise





October 10. Australia/New Zealand. 51 days.

he paradise islands of Tahiti, Moorea, Bora. Feel the tropical lure of Tonga, Pago. The Fijis, Hawaii. And other ntic ports. Explore New Zealand. Spend ll days in cosmopolitan Sydney.

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The atmosphere's informal. Join the activities or sit them out. Bridge, lectures, movies. Nightly floor shows. Dancing. Do what you want. Our officers are British. So competent and affable. Naturally, the Pacific Princess is British-registered.

If pressed for time, cruise to Sydney October 10 (28 days) and fly back to a major West Coast city. Or fly to Sydney from the West Coast and sail back November 8 to Los Angeles (23 days). Your coach air ticket is included in the program. Your travel agent has the details. Call now for the adventure of a lifetime.

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Cross-country skiing *is offered at most of the ski areas, by yourself or with a guide*

packages offered by the resorts can mean even greater savings.

Rating the resorts—the skiing and the facilities

The newest and most luxurious ski haven is Big Sky of Montana, south of Bozeman. About 23 miles of trails on Lone and Andesite mountains offer 18 runs. Some are for beginners; most are for intermediate and advanced skiers. Lodging ranges from the inexpensive hostel to the plush Huntley Lodge and condominiums. Facilities include swimming pools, sauna, restaurants, shops.

The state's best-known ski area is The Big Mountain, north of Kalispell. Its bowls and wide-cut runs are good for beginning and intermediate skiers, and there are some challenging advanced slopes. The triple chair is new. You can stay at the lodge or chalet on the mountain, or in nearby Whitefish.

Some of Montana's toughest skiing is at Montana Snow Bowl—it has one of the steepest runs in the country (Grizzly - 46 percent grade). Most runs are intermediate or advanced. You'll find a restaurant, day lodge, and ski-rental hut, but there are no accommodations on the mountain.

Two ski areas, Bridger Bowl (near Bozeman) and Red Lodge Mountain (near Billings), are oriented to family and day

At Snow Bowl ski area *you can look down on Missoula or just sit and bird-watch*

VHAT PRICE GREATNESS? $5,288!*

emarkably reasonable price for Pontiac's beautiful new 1977 Grand Prix.

r the timelessness of Grand Prix's styling. The clean, uncluttered lines. The classic profile. The look that continues to elude Grand Prix's imitators.

surprisingly affordable price for Grand Prix's celebrated comforts. The deep foam cushioning. The rich fabrics and carpet. The new luxury cushion steering wheel. And the wraparound instrument panel with electric clock. All standard.

A very appealing price for Grand Prix's famed responsiveness. Variable-ratio power steering. Power front disc brakes. Turbo Hydra-matic. Radial Tuned Suspension with steel-belted radial tires. And Pontiac's 5.7-litre (350-CID) 4-bbl. V-8. All standard.

An absolutely beautiful price for a car that's already inspiring legends. And one that can make you something of a legend yourself.

Buy or lease a new 1977 Grand Prix.

GM

*Manufacturer's suggested retail price including dealer preparation. Taxes, license, destination charges and available equipment additional (body-colored sport mirrors $31.60).

1977 GRAND PRIX BY PONTIAC THE MARK OF GREAT CARS

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You're certainly the authority in the high-living department. But they *are* brilliant to include Glacier Bay as part of their cruise through the fjords and rain forests of the Inside Passage. With stops at the fishing village of Ketchikan and the old Russian capital, Sitka.

You grew up by Glacier Bay, so you're partial. What about their trips to the interior? To Mt. McKinley, Anchorage and reliving the Gold Rush in Fairbanks? Or crossing the Arctic Circle to Eskimo villages. I pose for snapshots all the time.

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Do you mind!

They also have the finest hotel accommodations available in the interior.

Well, I've always appreciated a good night's sleep. And the Princess rates start at $745 for an 8-day trip. There's also a thrift season rate for $695. A real honey.

For all the toothsome details, see your Travel Agent. Or for a brochure, write Princess Tours, 727 Washington Bldg., P.O. Box 21185, Seattle, WA 98111.

Princess Tours
The insider's choice.

skiers. Bridger Bowl, true to its name, has open powder bowls with intermediate runs and a good choice of beginner runs. Red Lodge Mountain offers the beginner and intermediate more than 20 miles of trails. Only Bridger Bowl has accommodations, but both have restaurants and ski-rental and equipment shops; both provide bus transportation to nearby lodging.

All five areas are open daily from 9 A.M. to 4 P.M. Four have a variety of cross-country trails; the exception is Montana Snow Bowl. Below we list each resort with its nearest major city and details about its facilities; package prices are per person, based on double occupancy.

Facts, figures, and packages . . . from $14 to $46 per person, per day

Big Sky of Montana, Box 1, Big Sky 59716; 43 miles south of Bozeman. Gondola, triple chair, two double chairs; top elevation, 9,799 feet. Fees: lift, $10 per day, $6.50 for half day; lessons, $10 for 4 hours; rentals per day—$8 for downhill skis, $6 for cross-country. Package: seven nights' lodging at Big Sky, six days' lifts; from $111 (hostel) to $186 (lodge) or $229 (condominium). Telephone (406) 995-4211.

The Big Mountain, Box 1215, Whitefish 59937; 20 miles north of Kalispell. Two double chairs, triple chair, T-bar, Pomalift, rope tow; top elevation, 7,000 feet. Fees: lift, $8 per day, $6 for half day; lessons, $6 for 2 hours; rentals per day—$8 for downhill skis, $6 for cross-country. Package: five nights' lodging on the mountain, five days' lifts, lessons; from $181 to $231, including meals. Telephone (406) 862-3511.

Montana Snow Bowl, Box 1164, Missoula 59801; 13 miles northwest of Missoula. Double chair, Pomalift, T-bar, rope tow; top elevation, 7,600 feet. Fees: lift, $7 per day, $6 for half day; lessons, $8 for 2 hours; rentals per day—$8 for downhill, no cross-country skis. Package: five nights' lodging in Missoula, five days' lifts, lessons optional; $87. Telephone (406) 549-9006.

Bridger Bowl, Box 846, Bozeman 59715; 16 miles northeast of Bozeman. Three double chairs, T-bar, pony; top elevation, 8,600 feet. Fees: lift, $7.50 per day, $5.50 for half day; lessons, $5 for 2 hours; rental per day—$5.50 for downhill or cross-country skis. Package: three nights' lodging in Bozeman, three days' lifts, optional lessons; $40 to $89.50. Telephone (406) 587-2111.

Red Lodge Mountain, Drawer R, Red Lodge 59068; 65 miles southwest of Billings. Three double chairs, two Pomalifts; top elevation, 9,416 feet. Fees: lift, $8 per day, $5.50 for half day; lessons, $6.50 for 2 hours; rental per day—$8 for downhill skis (no cross-country skis). Package: six nights' lodging in Red Lodge, five days' lifts; $75 to $144. Telephone (406) 446-2288.

How to get there

Denver and Spokane are common departure points for the four cities close to the ski areas. Hughes Airwest flies to Kalispell; Western Airlines to Billings; Northwest Airlines to Billings, Bozeman, and Missoula; Frontier Airlines to Billings, Bozeman, Missoula, Kalispell. □

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Call the Hilton Reservation Service in your city or your travel agent for the details. Then come visit the Hiltons in Hawaii.

Hilton Hawaiian Village

JERRY FREDRICK

Wind-whipped surf *crashes behind surfperch fishermen on shirtsleeve-mild February afternoon at Montara State Beach, south of San Francisco. They hooked a redtail like the one shown at right*

DOUG WILSON

The best fishing for surfperch is now or soon in California, later up north

Scrappy little surfperch, with a delicate flavor just right for an old-fashioned fish fry, are a perennial favorite with surf-casters from Baja to British Columbia. The best fishing of the year is beginning right now along some stretches of the coast, as ocean temperatures cool and the bigger, feistier female perch bring their voracious appetites inshore to feed and propagate.

Buy bait, *rent tackle in shops at public piers*

Off Southern California beaches, the optimum conditions may begin as early as mid-December, with the season reaching its peak in late February or early March. In central and northern California the big perch start their inshore move this month, and the best action runs through mid-April. It's usually the middle of May before the action hits the southern Oregon beaches, and July is frequently best on the coast of Washington and British Columbia.

There are about 20 different species of surfperch along the coast, but the redtail, barred, and calico are most prized for size, spunkiness, and flavor.

The redtail (sometimes called the porgy or Oregon pogie in the Northwest) ranges from Washington to beaches just south of San Francisco. The barred surfperch occurs from the surf-crashed beaches north of San Francisco down to Baja waters; this is the one most frequently caught in Southern California. The calico has a fairly broad range with the heaviest concentration off the beaches of central California, centering in the Monterey Bay area.

Smaller members of the surfperch clan include the walleye, silver, shiner, and spotfin; found up and down the coast, they're frequently taken in lagoons and bays as well as along rocky shores.

All of the various species of surfperch belong to the family *Embiotocidae*, found exclusively along the Pacific Coast. They all have that same flat, almost circular configuration vaguely resembling a soup plate. Redtail usually weigh in around 3 pounds, calico a bit less. A big barred surfperch may grow to 18 inches in length and weigh up to 5 pounds; but, when hooked, it may make you think you've got something three or four times that size on your line.

The right place at the right time

When the big surfperch move inshore, they feed on sand worms, crustaceans, and clams that inhabit the troughlike depressions or holes lying off steeply sloping, coarse sand beaches. Find yourself a good hole and your chances of finding surfperch are greatly improved. These depressions are most easily spotted

(Continued on page 52)

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Concours has a battery with sealed side terminals that resist corrosion buildup. Granada Ghia uses a conventional battery.

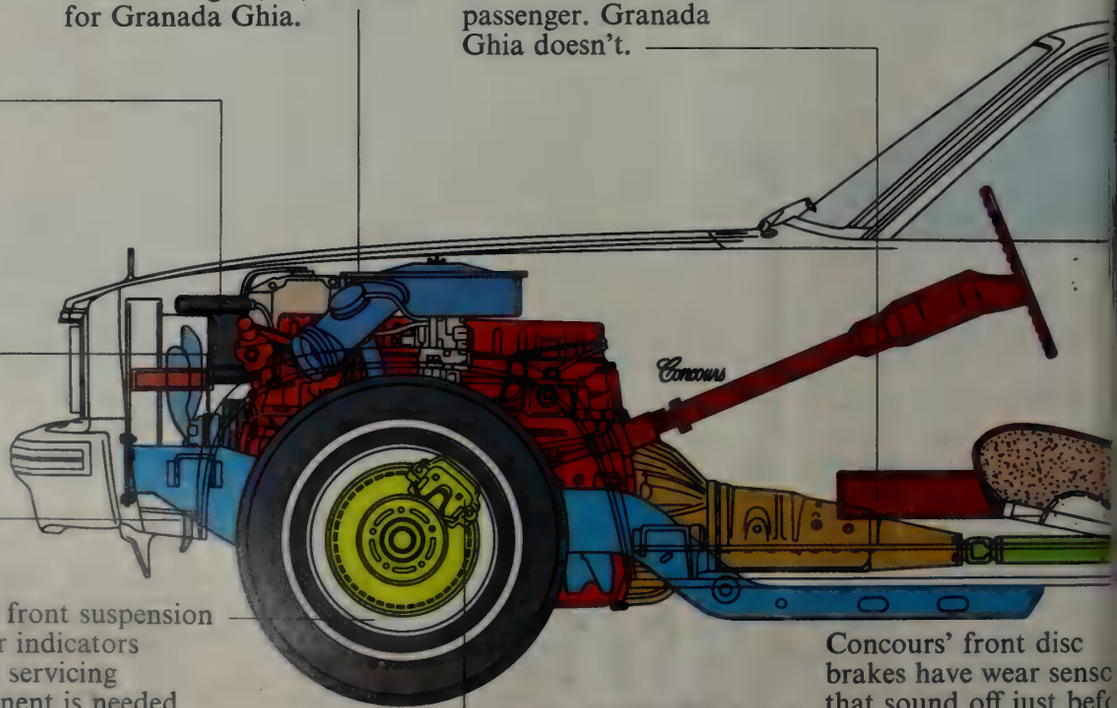
Concours has a Delcotron generator with built-in solid-state regulator. The Granada Ghia voltage regulator is a separate unit requiring extra wiring.

Recommended time between oil changes is 12 months or 7,500 miles for Concours, 7½ months or 7,500 miles for Granada Ghia.

Recommended time between spark plug changes is 30,000 miles for Concours with standard engine, 22,500 miles for Granada Ghia.

Concours has convenient map pockets in its carpeted lower front door panels for the convenience of the driver and front seat passenger. Granada Ghia doesn't.

In the sedan, Conc offers more front se head room, leg roo shoulder room thar Granada Ghia.



Concours has front suspension ball-joint wear indicators that tell when servicing of this component is needed. Granada Ghia doesn't.

Concours' front disc brakes have wear sensc that sound off just befc the pads need replacem Granada Ghia doesn't offer this feature.

GM

Based on a comparison of Manufacturers' Suggested Retail Prices for base 4-door sedan models. Model shown with available Custom Appearance Group, white sidewall tires and sport mirror.

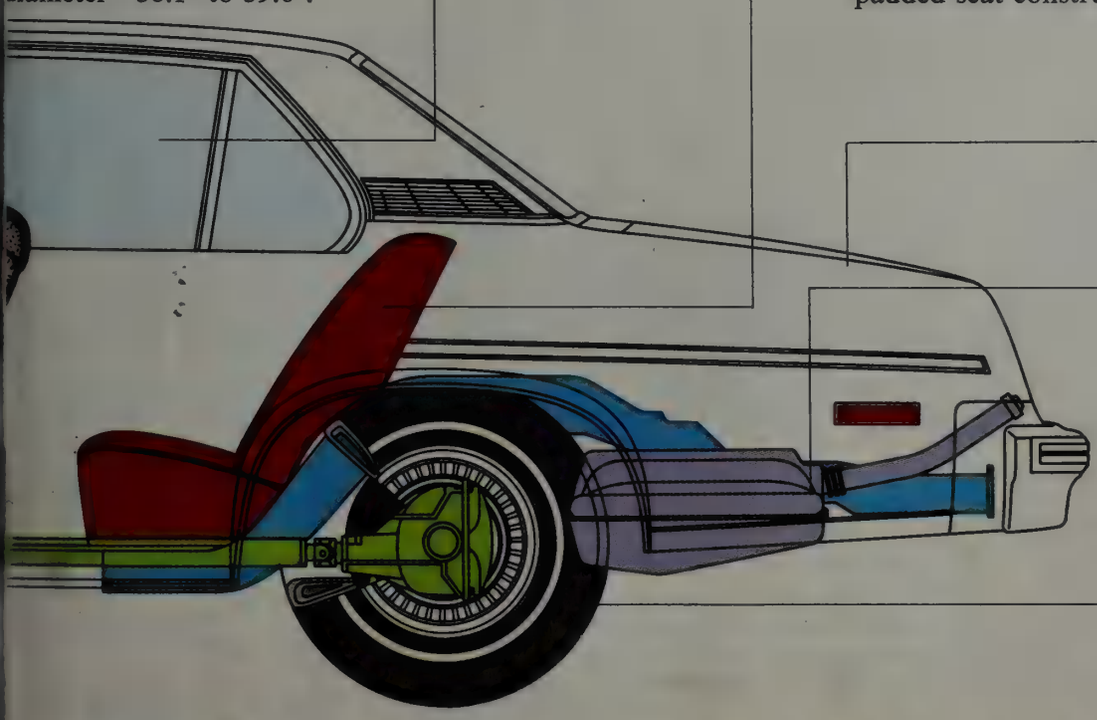
oncours.

511* less than Ford Granada Ghia.

Concours has a longer wheelbase—111″ to Granada Ghia's 109.9″—yet a shorter turning diameter—38.1″ to 39.0″.

Concours offers more total glass area than Granada Ghia.

Concours has deep full foam construction in both the seat cushions and seat backs. Granada Ghia uses conventional padded seat construction.



Concours offers Body by Fisher coachmanship.

Concours has a 21-gallon-rated fuel tank. The Granada Ghia fuel tank is rated at 19.2 gallons.

GM Specification FR78-14 steel-belted radial ply tires are standard on Concours. FR78-14 steel-belted radials are available on Ford's Granada Ghia at extra cost.

cours: A world class luxury compact from Chevrolet.

Chevrolet

BILL ROSS

Breakwater *near Silver Strand high-rises at Coronado, California, makes a jagged platform for surfcasting*

at low tide when they may be exposed to view. With a little practice you can spot them even at high tide by looking for places in the first row of breakers where the surf tends to flatten out.

Surfperch travel in schools, so anywhere you get one bite, it's safe to assume there are more to follow. The hit-or-miss way to find a feeding ground works for most fishermen: Just hike the beach, pausing every 10 to 15 yards to cast. You'll know when you hit pay dirt.

As a general rule, surfperch bite best on a running tide, either incoming or outgoing, when the water's movement is more likely to uncover sand crabs or other surfperch favorites. Mussels, clams, pileworms, shrimp, squid, and cut bait such as sardines and anchovies are all good baits available at most bait shops. Many surfperch veterans claim that sand crab is the best bait. Some bait shops have them, but you can also dig your own along most West Coast beaches.

In Southern California, ghost shrimp and bay mussels are the most popular bait. Farther north in the state, bait shops do a big business in pileworms. In the Northwest, clam necks are preferred. Artificial lures that surfperch will sometimes respond to include a small jig and a brightly colored streamer fly.

Casting into the breakers

Bottom fishing is the most successful method. You simply cast into the breakers, let your bait sink to the bottom, reel in any slack, and wait for the strike. You'll know when a surfperch takes the hook. Despite modest size, its frenetic tenacity and effective use of the pounding breakers present a challenge.

In moderate surf you may need up to 4 ounces of lead to anchor the bait securely. To cast this much weight effectively you'll need a stout, saltwater reel and a rod—at least 8 feet long—with plenty of backbone. A saltwater spinning outfit is the rig preferred by most surfcasters. The spinning reel is less prone to

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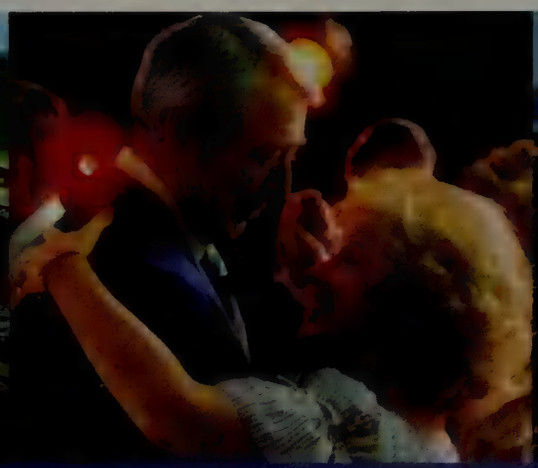

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Fabled ports of the Spanish Main
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JERRY FREDRICK

Pileworms *are good bait to tempt surfperch, but take care—they bite*

tangles than the revolving-spool reel on traditional surfcasting rods.

Hook, line, and sinker

The standard leader for surfperch bottom fishing is a 3-foot length of monofilament line with two dropper loops spaced about 15 inches apart. The leader is attached to the main line with a swivel (tie an end-loop knot at the end of your line and loop it through the eye of the swivel); a sinker is attached to the other end of the leader by a swivel-mounted snap with a safety-pin catch.

In surfcasting, pyramid-type sinkers should be fastened to the snap with the base of the pyramid facing the swivel.

To complete the terminal rig, attach snelled hooks to the dropper loops.

Bring along a variety of sinkers and hooks to meet the varying conditions of surfcasting. A 2-ounce sinker may be adequate in mild surf, but you'll probably move up to a 4-ounce weight. If the 4-ounce sinker is too light to secure your bait, you might as well give up and wait for a better day.

Veteran fishermen seldom agree as to the best size of hook to use for surfperch, but the consensus seems to be, "Use the smallest hook you can." Some surfcasters use hooks as small as number 10; others recommend a hook at least as big as a number 2 to keep the small perch off your line. One reasonable compromise: Start fishing with a number 6, then switch to a smaller or larger size as circumstances suggest.

To avoid losing your line when your sinker snags on the bottom, use a leader of less breaking strength than the main line. A 15-pound-test leader would be right for a reel spooled with 20-pound-test line. Another old trick to avoid snagging your sinker in submerged rocks: Substitute a little sand-filled, roll-your-own tobacco sack for the rigid lead sinker. Many tackle shops sell these small sacks.

How many surfperch can you take?

The number varies from state to state. Verify limits and special surf-fishing regulations with local fish and game officials. □

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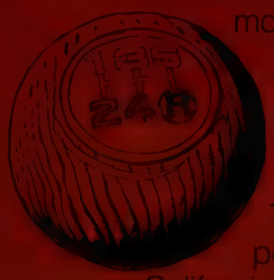

Talk about tops in its class. The big news for '77 is that Toyota trucks give you the best EPA gas mileage ratings in their class. For example: In 1977 EPA tests, the Long Bed Deluxe model, with 4-speed manual transmission, and all Toyota trucks, with 5-speed manual transmissions, got 34 mpg highway, 24 mpg city. These mileage figures are estimates. The actual mileage you get will vary depending on your driving habits and your truck's condition and equipment. California and EPA designated high altitude ratings will be lower.

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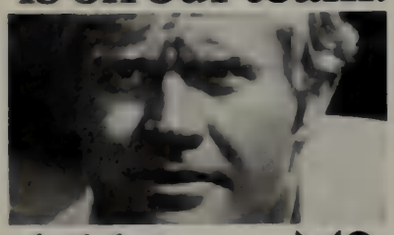

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DON NORMARK

They're waiting *to board Lake Union floatplane for inexpensive flight over Seattle*

Up by seaplane from Lake Union

It's almost impossible to visit Seattle's Lake Union and not notice the buzzing of seaplanes as they land and take off at frequent intervals. But what many visitors aren't aware of is that most of these planes are on scenic flights that show passengers great views of the city from on high.

If you've never taken off in a seaplane, it's a guaranteed thrill. Each flight takes less than half an hour and costs as little as $7 or less per person (planes usually carry four or five passengers). Typically, you'll see Lake Union, the government locks, the waterfront, the Kingdome, Lake Washington, and Husky Stadium. Lake Union is only 10 minutes north of downtown Seattle by car, bus, or taxi.

While scenic flights have been available for years, one operator—Lake Union Air Service—now offers a package that includes a 15-minute flight plus buffet lunch (either before or after) at a nearby lakeside restaurant. Package prices had not been set at our press time, but are expected to be no more than $10 to $15 per person. The same operator also will drop you off at any of three other lakeside restaurants with adequate docks.

Here's a list of operators (two on Lake Union, one on Lake Washington):

Kenmore Air Harbor, Inc., 6321 N.E. 175th St. on the north tip of Lake Washington, (206) 486-1257. Open daily 8 A.M. to sunset with quarter-hour flights covering north Seattle. There's a flat rate of $15 for up to three persons or $17.50 for 4 persons; larger planes can handle six passengers for $37.50. Longer trips can be arranged on an hourly basis.

Kurtzer Flying Service Co., 950 Westlake Ave. N., (206) 284-1234. Offers quarter-hour flights ($7 per person) covering the city plus either Lake Washington or Puget Sound between 9 A.M. and 6 P.M. Monday through Saturday, 10 to 6 on Sunday. Reservations are recommended on sunny days.

Lake Union Air Service, 1100 Westlake Ave., (206) 284-0300. Quarter-hour city tours ($7 per person) between 8:30 A.M. and 4 P.M. daily; to be sure of space, call in advance. □

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STEVE W. MARLEY

ıow geese *put on aerial show for watchers at Los Banos Wildlife Area*

Bird watching near Los Banos . . . here are five places to look

ing your binoculars and bird identifica-
ɔn book to any of the wildlife refuges
ear Los Banos, California, and you
ould easily be able to spot at least a
ɔzen species of birds (experts may see
or 80 kinds). They could include
erwintering snow geese, whistling
ans, glossy ibises, and sandhill cranes,
us year-round teals, herons, egrets, and
tterns. Flock sizes range from just a
w birds to hundreds or thousands, de-
nding on the day and where you go.

ıe refuges are all north of Los Banos,
ıd mostly along the San Joaquin River
ɔod plain. Los Banos is a small city
uthwest of Merced, on State 152 about
½ miles east of Interstate 5. You'll need
map showing state highways to help
ɔu find the refuges listed here. Check
the headquarters of each refuge for
ırrent bird lists and best birding sites.
ederal refuges are open from sunrise to
nset daily. Camping is allowed only at
os Banos Wildlife Area.

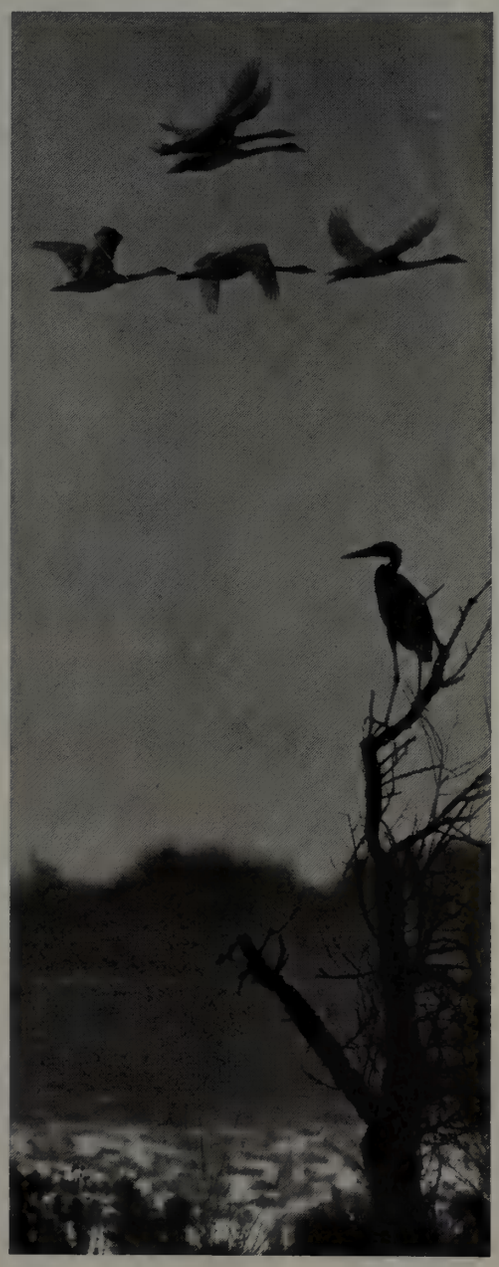
esterson National Wildlife Refuge. The
ıtrance is just west of the San Joaquin
iver on State 140. Pick up bird lists at
ın Luis refuge headquarters (see below).

ɔs Banos Wildlife Area. Open for birding
l the time; open-field camping permitted
ee. From State 165, follow Henry Miller
venue 1 mile east to entrance.
xcellent birding.

erced National Wildlife Refuge. Take
ındy Mush Road 6½ miles west from
ate 59; refuge entrance will be on your
ft. Usually very good bird watching.

ın Luis National Wildlife Refuge. Drive
ɔrtheast from State 165 on Wolfsen Road.
ollow it about 2 miles to the refuge
ıtrance. Look for tule elk as well as birds.

olta Wildlife Area. Open daily. Take
enry Miller Road west from State 165
st under 5½ miles, then veer right on
ıgomar Grade to refuge entrance. Walk
; no facilities here. Ponds may be drained
ıis month, curtailing bird-watching
ɔportunities. Make this your last choice. □



Quintet *of whistling swans gracefully wings past a great blue heron. Swans appear only in winter, herons all year*

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The Arizona Biltmore

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San Francisco

In an opera that parodies opera, counter tenor John Ferrante (right) plays the lead of Viva La Mamma. It should delight the opera dubious during this April's Spring Opera season. Below, opera plays the lunch circuit outdoors in San Francisco Civic Center

JERRY FREDRICK

Opera in the West 1977

It's different and it's booming. Here is where to go, what's playing, when, and how to get tickets for how much and before the sellouts. (See big chart on pages 64-65)

DON NORMARK

attle *Audience won't let final curtain fall after last act of Götterdämmerung at last year's Wagner Festival. Usher also gets into the Wagner spirit by horning in on Brünnhilde's head gear*

"A growing informality on both sides of the spotlight"

TERRY EILER

Santa Fe *Silhouetted against desert backdrop, singers rehearse evening's La Traviata in open-air theater*

rants Pass, Sedona, Logan *These are just a few places where San Francisco's Western Opera Theater is scheduled to play. Here they're performing The Marriage of Figaro*

MORGAN SHANNON

San Diego *October 1976 production of Otello. Thomas Tipton, left, portrays Iago; John Andrews is Otello*

pera, perhaps the most formal of per-rming arts, is booming all around the est, certainly the most informal of re-ons. Why?

ainly it's because a number of new and d companies are aiming an imaginative mpaign at people who've avoided era before. They're taking opera where s rarely been: into the schools; in front city hall; to towns like Sedona, Ari-na, and Logan, Utah. In San Fran-sco, office workers have been sharing eir lunch with Puccini, Verdi, and her greats courtesy of Brown Bag pera. And in Tucson schools, opera-onsored puppet shows prepare children attend free dress rehearsals.

Ticket prices range from under $5 to over $15, and some outdoor performances are free.

And there's a growing informality on both sides of the spotlights. Who in the Portland audience feels that he must wear a tie when Stefan Minde, General Director and Conductor, appears on the podium in a turtleneck? In San Diego, audiences of Tuesday's early-bird operas (7 P.M. curtain) are requested not to wear tuxedos. In Santa Fe, where performances are outdoors at 7,000 feet, garb ranges from parkas to black tie (often with long johns underneath).

The dress-up tradition dies hardest in San Francisco, where you still see gents in white tie and tails, sometimes top hats, especially on Tuesday nights.

Western companies are making it much easier to understand opera, too. More is being sung in English—in Seattle, at least two performances of every opera. Some purists complain that the translation to English interferes with original phrasing and nuance of meaning, but everyone seems to agree that this makes

Before, after, and in between the acts, in the opera house and in the park, informality and high jinks, in daytime and afternoon, and a last bouquet at midnight

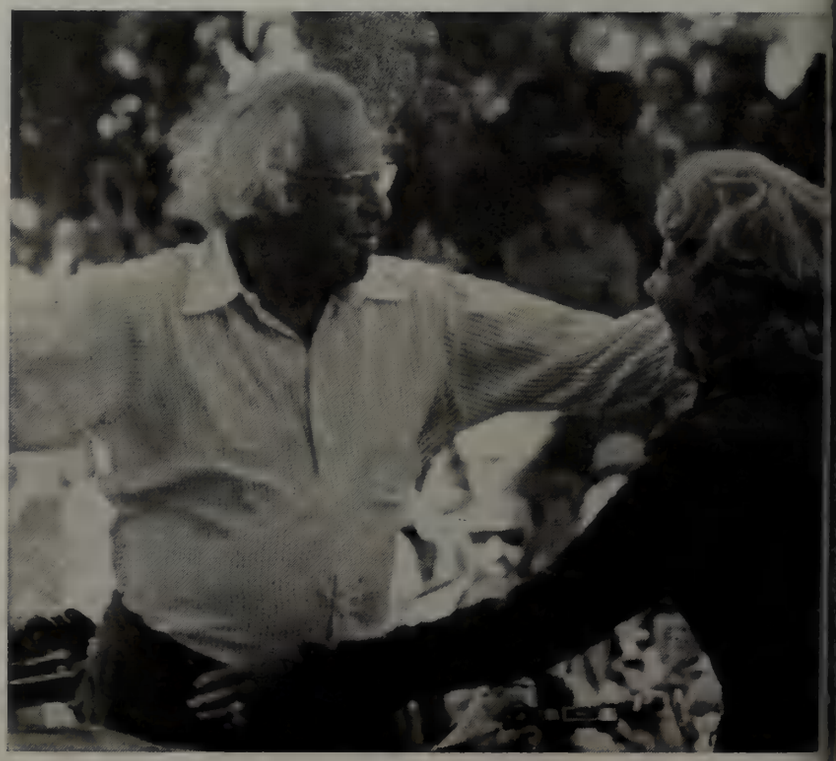
DON NORMARK

At Seattle Center, *"willing participant" and her friends enjoy 2-hour picnic break between acts of Götterdämmerung*

Irish coffee *is favorite entr'acte refreshment San Francisco opera. Before curtain there's cafeteria fa*

TERRY EILER

Central City *tradition: square dancing in Williams Stable before and after opera*



Beverly Sills *and Maestro Kurt Herbert Adler exult after free opera in Golden Gate Park. Audience of 25,000 is on its feet with a roar worthy of the old football days at nearby Kezar Stadium*

JERRY FREDRICK

s near midnight. *At stage door a final bouquet and a car await an Sutherland who has opened in Il Trovatore*

Opening night dress. *Gladys Dobelle is gowned in a tuxedo*

easier to attract first-time opera goers. nally, many Western opera companies ake it part of their business to help you t ready. Seattle audiences, for example, n arrive at the opera house an hour rly for an opera preview; or, with a ich-tone telephone they can call up hour-long preview (call Seattle Opera r details). In San Diego, a sponsored ture series takes place in local librar-; another is held around the area, with February 7 session to take place in a za parlor in Pacific Beach. Portland era goers can bone up with ½-hour era previews on public television.

joy the show—do your homework

ogram notes read before curtain time help theater, ballet, and symphony diences, but opera goers benefit from me homework. The plot, the dialogue, e music and its recurring themes or otifs are all worth advance study. When ama and music combine they can gen-ate such excitement that the audience lts the action midscene with a torrent bravos. You'll feel left out if you don't derstand what triggered the demon-ation.

ading the opera text or libretto is a od way to begin. You can buy one in ost music stores for $1 or $2. If you y a complete opera recording, the li-etto is included. You should also find e libretto with record albums you can check out from your library. Libraries in San Diego, San Francisco, Portland, and Seattle make on effort to have available recordings of operas in the season's repertoire.

Through April 16 you'll also be able to listen to operas on the Saturday morning radio broadcasts of New York's Metropolitan Opera. In San Francisco on KKHI AM/FM and in Los Angeles on KFAC AM/FM, you can hear Friday night broadcasts during San Francisco's fall season. They are also carried on FM stations in San Diego, Fresno, Sacramento, Portland, and Seattle. Public Broadcasting's opera programs enjoy the highest ratings of all their televised performing arts; look for it in the "Great Performances" series.

About the chart on the next 2 pages

You'll find a description of opera companies in the West, their seasons, and ticket information. Using it you can see how your 1977 travel plans might coincide with some opera performances.

On the chart you'll note that we list how far the balcony overhangs the main floor in each opera house. With this you can tell if your seats are under the balcony (some people dislike the acoustics beneath an overhang); or how close to the front of the house you can be in the balcony.

The budget figures in the chart offer clues to the scope of each company. Of the 11 companies in the nation with budgets as high as $1 million, 4 are in the West: San Francisco, Seattle, San Diego, and Santa Fe.

Some reminders: The high percentage of seats sold last season indicates how important it is to write early to the addresses given for ticket information. Also, at performances requiring a ticket purchase, latecomers will not be seated until a break in the action, such as a scene change or the end of the act; arrive promptly.

The professional companies we list are members of OPERA America, a national clearing-house for opera companies. Not included are at least three important companies that perform in the West: The Nevada Opera Guild, Box 5548, Reno 89513, which has applied for OPERA America membership; the Vancouver Opera Association, 111 Dunsmuir, Vancouver, under the baton of Richard Bonynge; and the innovative New York City Opera, which makes its annual visit to Chandler Pavilion in Los Angeles in late 1977.

Tickets for the Los Angeles performances go on sale in September. Write to Music Center Ticket Office, c/o New York City Opera, 135 N. Grand Ave., Los Angeles 90012; (213) 972-7211. □

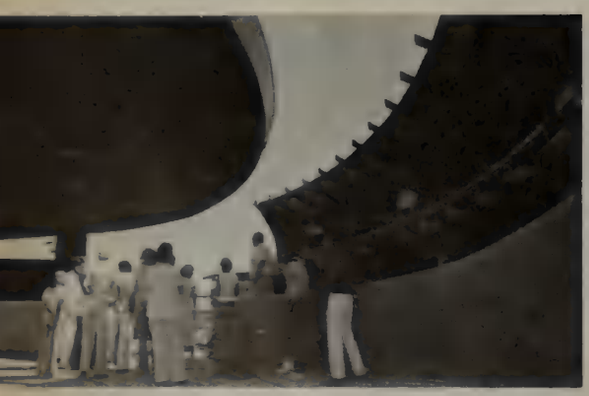
San Francisco Opera

Opera here has been in business for 54 years, longer than any other continuously performing company except for New York's Metropolitan. By any measure—six new productions last fall, 61 performances, appearances by Beverly Sills, Placido Domingo, Jon Vickers, Frederica Von Stade, Sherrill Milnes, and Karl Böhm, and a budget over $6 million—San Francisco's Fall Season ranks among the great opera experiences: a source of talent, a stimulus, a standard for Western opera companies.

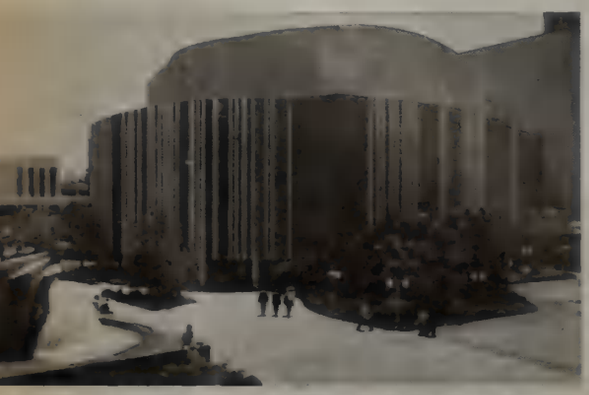
The classic façade of its home, the War Memorial Opera House, doesn't prepare the visitor for the interior, which has enough red plush and gilt to appear sumptuous yet overall is quite restrained. Most of the 3,252 seats are in two huge tiers: From the rear of the second to the stage measures 161 feet; the first overhangs the orchestra to Row W. The house sells food and drinks. Some 300 standing places are sold for $3.50 2 hours before the curtain.

	THE SEASON	TICKET INFORMATION
	Fall Season (Sept. 9 - Nov. 27). Firm: Opening will be *Adriana Lecouvreur* with Obratsova, Scotto, Aragall; *Ariadne auf Naxos* with Price. To appear, each in a part they've not sung here before: Pavarotti, Sills, Ricciarelli, Carreras. Not firm: *Aïda, Katya Kabanova, I Puritani, Un Ballo in Maschera, Turandot.*	Last Fall Season 98 percent of seats sold, 73 percent of them to season ticket holders. Cost: $6 to $25; no savings on tickets purchased for season. Half hour before curtain, tickets (if available) for students, senior citizens ($4). Opera series: Tuesday, Wednesday, Friday, Saturday nights; Saturday and Sunday matinees. For ticket information, write to War Memorial Opera House, San Francisco 94102; or call (415) 431-1210.
BROWN BAG OPERA in its fourth year takes operatic entertainment to the people—over 200,000 to date. Budget is $30,000. It plays the 1,100-seat Veterans Auditorium Wednesdays at noon through April 13. It also roams—from the rug sample room of Liberty House department store to Juvenile Hall.	Two to four young singers in costume with piano accompanist perform arias and one-act operas. They can also be hired to sing anywhere in the Bay Area.	Most Veterans Auditorium operas sell out. Cost: 50 cents, bag lunch $1.25. Call (415) 861-4008 for other Bay Area locations.
SPRING OPERA THEATER starts its 16th season performing little-known works and reexamining old favorites. In the more intimate (1,796-seat) Curran Theatre, near restaurants and Union Square, it's possible to combine the drama of theater with the music of opera. Singers are young Americans and the performances are in English, which breaks stereotypes held by the opera-leery and the uninitiated. Budget for season is over $500,000. Balcony extends over last eight rows of the orchestra; its front rows include the best, most expensive seats.	*Carmen*, April 14, 16, 22, May 8; *Titus*, April 15, 17, 23, 28; *The Combat, Savitri*, and *The Emperor of Atlantis*, April 21, 24, 30, May 6; *Viva La Mamma*, April 29, May 1, 5, 7. Season tickets: four Thursday, Friday, Saturday evenings, or Sunday afternoons.	Season tickets ($18 to $60) are processed before single tickets ($4.50 to $15); write to S.P.O.T., Opera House, San Francisco 94102; (415) 431-1463. No standing. Tickets sold at opera box office and Curran.
WESTERN OPERA THEATER works its 11th season. A company of 13 young singers tours the West, gaining experience by presenting opera in a variety of settings. Last year it visited 59 cities, traveled 25,000 miles, performed for 63,000. Budget is $500,000. Culmination is two weekends of performances at 1,000-seat Palace of Fine Arts (scene of second Presidential Debate last October). It's 80 feet from back row to stage; some complain that sound at sides is "soft." No standing room. Presentations in 1977: *The Marriage of Figaro, Susannah, Don Pasquale, Portuguese Inn.*	Firm dates: *Feb.*: Santa Rosa, Calif.; Bend, Grants Pass, Roseburg, Corvallis, Ore.; Eureka, Calif. *March*: Scottsdale, Mesa, Tempe (A.S.U.), Sedona, Many Farms, Prescott, Bisbee, Ariz. *April*: Logan, Utah; Modesto, Sacramento, Suisun City, Calif. *May*: Calistoga, San Jose, San Francisco (11-13 and 20-22).	Last year, all San Francisco performances sold out. At press deadline, prices this year were uncertain. Write to W.O.T., Opera House, San Francisco 94102, for ticket information. No reserved seating. Tickets are sold by mail order before box office tickets are sold.

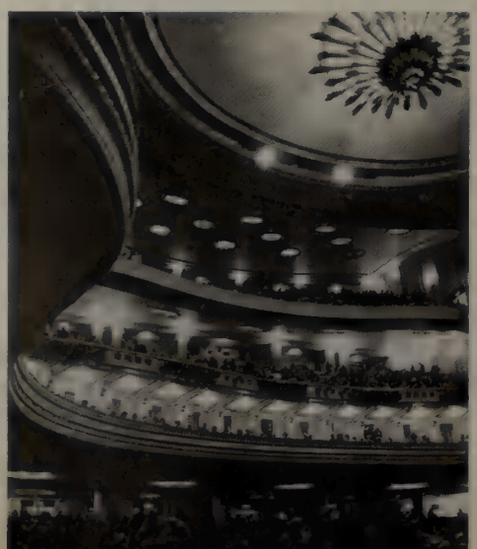
Opera in the West from now to year's end and on to 1978... dates, operas, tickets. Is there standing room? Is there a bar, food?



Public tours *of Santa Fe Opera take visitors through dramatic outdoor theater*



Concrete and steel *Civic Theatre built in 1964 houses San Diego Opera*



Graceful tiers *of San Francisco Opera House hold most seats. Behind next-to-top tier (Dress Circle), standees (above) enjoy good sight lines, acoustics; but sometimes it gets hot*

	THE SEASON	TICKET INFORMATION
eattle Opera t its 13 seasons, this company has done much to popularize ›era by presenting it in English. No matter the opera, Friday ght performances and Sunday matinees are sung in English. An :tive preview program takes opera into the community. Opera ıdget is $2 million. he company's performances of Wagner's *The Ring of the ibelung* at the 3-year-old Pacific Northwest Summer estival have been widely acclaimed. The four *Ring* operas are erformed in German one week, English the next. Some 30 ercent of this year's festival seats were sold by January 1. pera House seats 3,100 with slightly over half the seats on the ain floor. It's 150 feet from back of the house to the stage; ılcony overhangs orchestra to Row W. Food and drinks are ıld. No standing room.	Tickets still available for *La Cenerentola*, March 17, 19, 23, 25, 26, 27; *Tosca*, May 5, 7, 11, 13, 14, 15. Wagner Festival: *Das Rheingold*, July 18; *Die Walküre*, 19; *Siegfried*, 21; *Götterdämmerung*, 23. English cycle: July 25, 26, 28, 30. 1977-78 season: *Madama Butterfly*, Sept.; *Le Roi de Lahore*, Oct., Nov.; *Boris Godunov*, Jan., Feb.; *Magic Flute*, March; *Falstaff*, May.	Last year 96 percent of tickets sold. Tickets cost $13.50 to $74.25 for season, $3 to $16.50 each. *Ring* series costs $38 to $100; no single tickets sold; last year's German cycle outdrew the English. Write to Box 9248, Seattle 98109; (206) 447-4700. Accommodations are scarce during festival, book early. Librettos are sold in lobby and at ticket office.
'ortland Opera ınovative, 27-year-old company stresses the theater in opera. his year it began an exchange of operas with Seattle. Budget $628,000. ivic Auditorium, designed for music, seats 3,000. It's 120 feet om back balcony row to stage; balcony overhangs orchestra › Row X. Intermissions are a treat with small open-faced ındwiches (including smoked salmon), pastries, and house bar.	Good seats remain for: *La Cenerentola*, March 10, 12, 14; *Die Meistersinger von Nürnberg*, May 11, 14, 17. Next season: *Carmen*, Sept. 22, 24, 26; *Elektra*, Nov. 16, 19, 22; *Magic Flute*, March 23, 25, 27; *Falstaff*, April 26, 29, May 2.	Last year, 97 percent sellout. Season tickets (1977-78) sold in April ($20 to $90); singles ($5.50 to $25) available six weeks before performance. No standing room. Write to Box 8598, Portland 97207; (503) 248-4741.
Central City Opera House, Colorado tarting its 46th year as part of the Central City Festival, it ffered first summer opera in this country. On November 17 and 9 it travels 40 miles to perform in Denver. Budget is $300,000. he 99-year-old opera house is on the national historic registry, eats 800 on "kitchen chairs," has excellent acoustics; it's ■ mere 7 feet from back balcony to stage. No standing, food, or drink.	1977 season: *The Bartered Bride*, July 10, 13, 14, 15, 17, 20, 21, 23 (mat.), 23, 27, 29; *Midsummer Night's Dream*, July 16, 20 (mat.), 22, 24 (mat.), 28, 30 (mat.).	Last year the opera played to 94 percent capacity. Tickets: $8, $10.50, $11, $12. Write to Opera, Suite 636, 910 16th St., Denver 80202; (303) 623-7167.
Santa Fe Opera his repertory company's record is 19 premieres in 20 years. ılong with the Met it can claim national support. The musicians re in residence and rehearsal time is generous. Budget is 1.4 million. he alfresco opera house seats 1,765 and is under cover except or orchestra rows L through V; priced less than other seats, ıey may be a bargain—in two years only six nights have been ainy. It's 95 feet from stage to last row of mezzanine. At any me the house can be chilly; with regulars, warm wins over legant. Bar service, no food.	July 6 to Aug. 27; *The Italian Straw Hat, Falstaff, Pelléas et Mélisande, Fedora, Cosí Fan Tutte*. In August, the repertoire repeats weekly. From town allow ½ hour to be in your seat. For accommodation help, write to Chamber of Commerce, Santa Fe 87501.	House was at 94-percent capacity last year. Tickets cost $7.50 to $17.50. Write to Box 2408, Santa Fe 87501; (505) 982-3851. Orders filled after March 1. At 8 P.M., 150 standing tickets go on sale for $3. Performances await darkness at 9 P.M.
Tucson Opera ust 6 years old, Tucson Opera will share its season with 'hoenix at Symphony Hall. On June 12 it opens the Flagstaff ummer Festival with a matinee performance of *Rigoletto*. Budget is $200,000. 'ucson's Music Hall seats 2,200 and measures 153 feet from the ıck of the balcony to the stage. Balcony overhang extends to ow X of the orchestra. There are bars; no food in house.	Tickets remain for: *Cinderella*, May 5, 6, 8. Tentative: *Otello*, Nov. 3, 4, 6; Phoenix, 11, 12; *Don Giovanni*, Jan. 12, 13, 15; Phoenix, 20, 21; *La Vida Breve* and *El Retablo*, May 11, 12, 14; Phoenix, 26, 27.	Last year, 80 percent of seats sold. *Cinderella* costs $3 to $12. Next season will be $3 to $12 per performance. Write to 412 N. Sixth Ave., Tucson 85705; (602) 884-7980.
San Diego Opera 'erforming since 1965, it's the only professional resident ompany in Southern California. Budget is $1.3 million. Great emand for tickets especially when Beverly Sills appears, hough prices increase $2 per ticket (she sings in *La Traviata* his season, *The Merry Widow* next). ivic Theatre seats 3,000 and measures 155 feet from the back alcony row to the stage. Dress Circle seating is beneath ıezzanine overhang. House sells food and drinks.	About 450 seats remain for *Götterdämmerung*, Feb. 19, 22, 25, 27; *La Traviata*, March 26, 29, April 1, 3. Next season: *The Merry Widow*, *Don Giovanni*, and *Carmen* in Oct.; *Falstaff*, *Madama Butterfly*, and *The Love for Three Oranges*, Feb., March.	Last year, 95 percent of seats sold. All tickets (except Sills) cost $5 to $16. Also, 87 percent of house sold for season ($20 to $64). Standing room, available when house sells out, costs $4. Write to Box 988, San Diego 92112; (714) 232-7636; box office, 236-6510.
Hawaii Opera Theatre n addition to its regular season (now in its 17th year), the ompany adapts operas for children. Budget is $335,000. Blaisdell Hall seats 2,017, measures 106 feet from back row alcony to stage. The balcony overhangs the orchestra to ow S. At sellouts, 75 standing tickets are sold for $2.50. There is ample parking in the performance complex.	Seats remain for *The Barber of Seville*, Feb. 4, 6, 8; *Les Pêcheurs de Perles*, Feb. 18, 20, 22. The 1977-78 season has not been announced.	Last year, 86 percent of seats sold at $7 to $15. Some available before performance. Write to H.O.T., Suite 303, 1000 Bishop St., Honolulu 96813; (808) 537-6191.

PETER O. WHITELEY

Curved screen *uses ties and inexpensive drain tiles (only 30 cents each). Ties are set in concrete, spaced 5½ inches apart. Tiles are stacked between, held by mastic. Owner-designer: Robert F. Rubel, La Jolla, California*

Landscaping with old railroad ties (or even with new ones). They are easy to use, inexpensive

They're stepping down *a broad stairway of ties onto a walkway of ties and redwood rounds. Owner-designers: Mr. and Mrs. Tim E. Marshall, San Jose*

Garden pool *of concrete was formed inside a tie frame. Design: Reliable Gardens. Owners: Mr. and Mrs. David Welch, Woodland Hills, California*

Try used railroad ties for landscaping projects where you want boldness and durability. They're the 6 by 8-inch by 8-foot-long huskies, weighing in at anywhere from 100 to 140 pounds. Pretreated against rot and insect damage, they'll endure the elements for many, many years.

Right now, ties seem to be easier to find than they have been in recent years, as the box on page 69 indicates.

On these four pages we show you some of the ways Westerners are using railroad ties. Some, like the raised bed shown in the photograph in the middle of page 68, are examples of the tried and true; others show a remarkable degree of ingenuity. Look, for example, at the small garden pool at the left, or the intriguing lean-back retaining wall on page 68. And if you tend to equate boldness with crudeness, note the refinement of the railroad tie fence shown in the photograph at top left on page 68.

Moving a few or a dozen

Although hefting a few ties with a helper from street to back garden isn't too back-breaking, moving a dozen can be. Use a cart, wheelbarrow, or hand truck when possible, and have a friend handy. You'll need him minimally just to help steady the load.

If you know what lengths you'll need, do the cutting right where the ties are delivered, then move the cut sections.

JERRY FREDRICK

Ivy *softens the edges of these two-tie-deep steps supported by vertical tie sections set in concrete. Design: Courtland Paul, Peridian Group for Dr. and Mrs. John Marsh, Whittier, California*

NORMAN A. PLATE

Vegetable beds *are framed by ties and concrete blocks. Lower ties are sunk one-third in ground and secured to top ties with metal straps. Owner: Sara A. Crickmore, Scottsdale, Arizona*

How do you cut them?

A chain saw is the fastest way, and one was used in almost all the projects you see here. Reports ranged from "very easy" to "hard work" to "it ruined my chain saw blade." Some complained that creosote-treated ties tended to gum up the cutters; others had no problem. Imbedded sand, rock, or pieces of spikes can damage a saw—another reason why it's a good idea to hand-pick your ties.

If you don't own a chain saw, don't want to rent one (about $20 to $30 per day), or feel uneasy about using one for this kind of job, rent a two-man crosscut saw for about $2.50 a day or a one-man bow or bucksaw for $1.75. Regardless of the kind of saw you use, wear heavy gloves and goggles and take common-sense safety precautions.

Keeping the ties in place

If the ties are being used instead of other paving for a walk or patio, you'll need a solid base of hard-tamped soil, sand, or fine gravel so they won't pivot, rock, or settle. Then fill in around with soil, sand, concrete, or rock. An equally firm base is needed for other projects where ties are stacked horizontally, such as to make a retaining wall, raised planting bed, or sandbox.

In addition you may have to join the ties in some fashion. One method is to drive sections of pipe into solid ground (or set them in concrete) on the back or inside

Freestanding wall *uses ties set in gravel with 2-by-6 spacers, neat cap of 2 by 6's. Design: John Herbst, Jr. Owner: Marian Carney, Lake Oswego, Oregon*

ELLS MARUGG

Extending *the reinforcing ties of a retaining wall provided support for a bench seat of 2 by 6's in this Kensington, California, garden*

BILL ROSS

Sloping side yard *was converted into a multilevel, brick-paved outdoor living area by steps and retaining walls of ties. Owner-designer: Mr. and Mrs. Michael West, Whittier, California*

Raised bed *has alternating butt joints at corner. Design: The Burr Associates, Tacoma*

Informal grade change *is pleasantly executed by ties used as steps and as retaining terraces. Design: George Fuller. Owners: Mr. and Mrs. Robert Hinerfeld, Los Angeles*

NORMAN A. PLATE

Lean-back palisade *consists of random-length ties buried about 3 feet in the ground. Note how the ties are clustered here and there for pattern effect and to give the wall added strength. Reed Vollstedt designed it for Mr. and Mrs. Ronald Reich of Eugene, Oregon*

f the wall or planter, and then fasten ıe ties to the pipe with bent nails or ıetal straps.

'o secure railroad tie steps set on the round, drill a hole down through the tep at each side and drive a length of einforcing rod through the tie into at east a foot of solid ground. To make ure there's no projection to trip over, rive the rod well into the tie.

ometimes gravity is enough. Ties are ıeavy and basically smooth faced. They vill stack.

hort lengths used vertically can be set nto holes or troughs in the ground and rmed in place. But if you want the ties o project 4 feet or more, it's wise to set he ends in concrete. This depends in part n whether the ties have to support a ank or just their own weight. On major ank-holding projects, better get the ad- ice of a landscape architect, landscape ontractor, or engineer. It's also a good dea to treat all cut ends with a preserva- ive; pressure treatment protects only the uter portions of the tie. □

How easy to find the ties? How much will you have to pay?

Are railroad ties readily available? To find out, we got in touch with sources in all major cities in the West. We found ties to be surprisingly plentiful.

The first place to check is your local building supply center or lumber dealer. If that fails, check the yellow pages of your telephone book under Railroad Equipment and Supplies.

You'll find several grades of ties to choose from. Prices quoted to *Sunset* ranged from a low of $2 to a high of about $8. Good-quality used ties usually run between $6 and $7. Some firms offer a quantity discount.

Standard ties are 6 by 8 inches by 8 feet long, but here again you'll find some variation: from 7 by 9 inches by 8 feet to 8 by 8 inches by 8 feet. They may be redwood, oak, pine, fir, or cedar. You can buy new ties as well as used ones; they command top price of $10 to $12 apiece.

Hand-picking *gets you what you want. Many yards sort ties by grade and price to make selection easier*

Before. *Concrete driveway to garage is the only entry to house, and takes up half of front yard space. Bedroom window faces street*

After. *A 6-foot-tall fence (actually two big gates) hides trellised patio. Walk of railroad ties and bricks beside new drive leads to smaller lockable entry gate at left*

BILL ROSS

Now they have a subtropical patio

Before they just had a driveway, an uninviting entry, and no streetside privacy

Here is a straightforward solution to an all-too-common landscape problem: an uninviting entrance and a bedroom exposed to the street. Even screen planting couldn't shield the bedroom, since the concrete driveway came right up to the house wall.

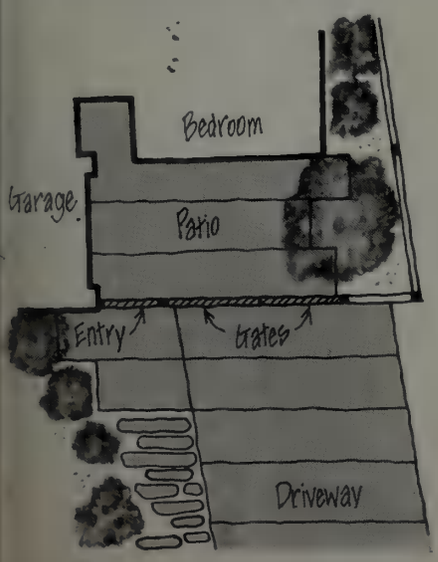
The solution is a trade-off. It makes the owners sacrifice the daily use of their garage, but gains for them a delightful sunny patio while hiding the street view from the bedroom and vice versa.

Local building codes don't permit the permanent blocking of a garage, so the patio fence is actually two 6-foot-tall and 7-foot-wide gates. Most of the time, in this mild Southern California climate, they are bolted shut, but it is possible to open them and drive the car into the garage—a good idea when the family goes off on trips. Of necessity the new shorter driveway, brick patio, and garage floor are all on the same level. The drive has been widened to permit off-

Subtropical patio *off bedroom hides from street behind fence. New French doors replaced bedroom window. Plants include bamboo, hanging epiphyllum cactus, Pygmy date palm, and staghorn ferns on fence*

treet parking for two cars.

Most of the plants in the patio are in pots that can be moved out of the car's path when necessary. The exception is a tree, flowering *Cassia leptophylla*, planted at the far end of the patio, out of the car's turning circle.



Two 6 by 6-inch rough redwood posts, sunk 2 feet into the ground, support the gates, which consist of 1 by 3-inch redwood fencing nailed to horizontal 2 by 6's. These 2 by 6's are hefty enough to support the long gates and wide enough to provide ledges for potted plants.

The patio's overhead trellis of redwood 1 by 4's rests on 2-by-8 beams; these are bolted to either side of a tall post at one end, nailed to the house at the other.

White paint formerly hid the house's redwood siding. Sandblasting removed the paint, revealing the warm color of the wood which now complements the rough-textured new gates.

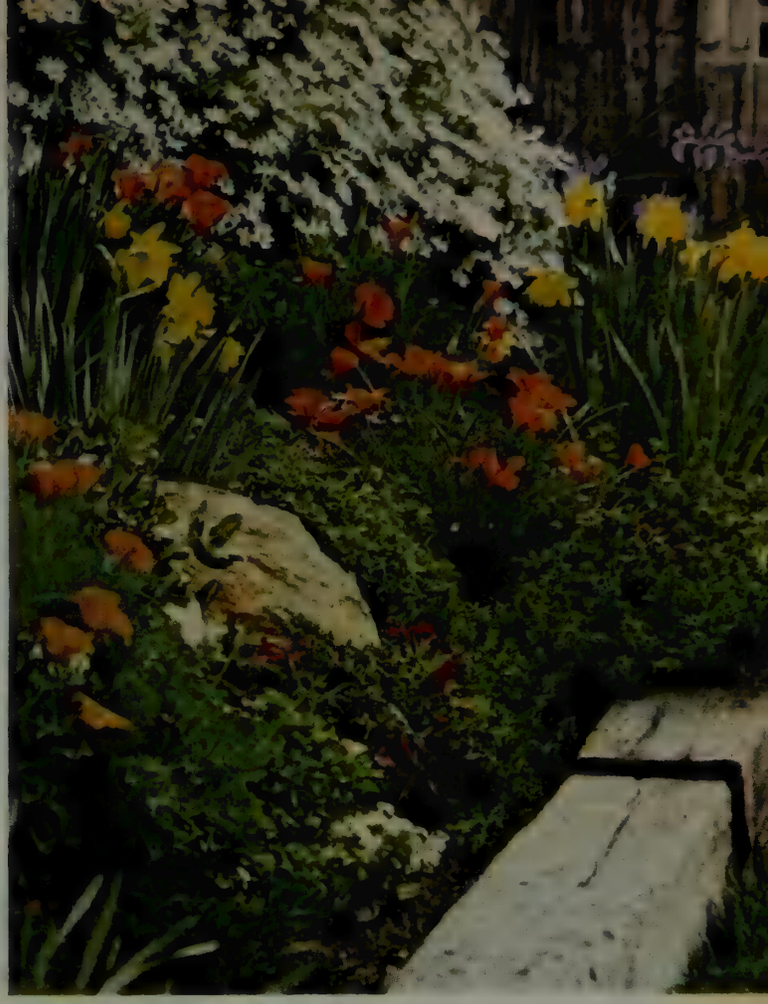
The whole project was relatively inexpensive. New paving, fencing, trellis, and sandblasting came to about $1,000. Except for the sandblasting, the owners did all the work themselves, guided by architect Carl Day of Santa Monica. □

Big gates *open to let car into garage. Heavy-duty casters and an extra 2 by 6 (on its side) strengthen each gate*

Basket azalea *'Coral Wing' blooms in February at Bolsa Chica Nursery*

Tulips *planted in fall team up with primroses you can plant in full bloom. They're beside walk at Sherman Foundation on Coast Highway in Corona del Mar*

g comes to r's Gardens in port Beach. White vtuft and violas mixed Polyanthus oses and yellow- Scotch moss. an plant all se plants nonth
CHRISTIANSEN



Bank planting *at Roger's Gardens mixes permanent shrubs and stones with spring color producers—California poppies, 'King Alfred' daffodils, white marguerites, Dutch iris*

It's spring in February

Southern California's Orange County bursts into color this month. Innovative new nurseries (and one botanic garden) are ready now with idea displays for gardener visitors

Vhile most of the West still knows it's inter, coastal Southern California starts oking like spring in February—as you n see here. These photographs were ken in February and early March at range County's new and innovative urseries, and one new botanic garden. whole new idea in nurseries, these ave such things as landscape displays at look like gardens, classes and emonstrations, and a grand variety of ll-blooming pots and baskets to take ome. They're well worth a visit just to look at the color, or for planting ideas to use in your own garden.

Depending on where you live, you'll have to adjust planting dates; much of what you see at the nurseries was planted in fall, and can still be planted in very early spring. The map on page 75 suggests a driving tour of the nurseries and botanic garden. You're never more than about 15 miles from Disneyland, as the crow flies.

You'll find most February days here warm and sunny, nights mild. It's seldom really cold. A typical February day has a high of about 65°, a low of about 50°. All this helps explain why the area gets off to such an early start with spring flowers. This superb gardening climate plus the area's affluence explain the lavish nurseries.

Roger's Gardens in Newport Beach is the best known, and historically first, of the innovative nurseries. It can be such a bouquet of color that tour buses frequently stop. It pioneered growing color in pots and hanging baskets, advancing

All-white *combination of cyclamen and fairy primroses grows in flat-sided, wall-hung wire basket lined with green moss*

Hanging basket *of fibrous begonias and cyclamen bloomed all winter. Yellow marigolds just came into bloom*

Wall-mounted basket *is all cinerarias. Dwarf kinds sold now are best for this use*

GLENN CHRISTIANSEN

Year-round *combination in moss-lined basket combines faceless blue and yellow violas and white sweet alyssum*

Forest-floor-look *in a shallow hanging container at Sherman Foundation has ferns, Polyanthus and fairy primroses, driftwood. You can plant all these now.*

n idea borrowed from Victoria, British olumbia. (*Sunset* first showed these anging baskets on the June 1973 cover.) permanent display across from the mphitheater takes you step-by-step rough the basket planting process.

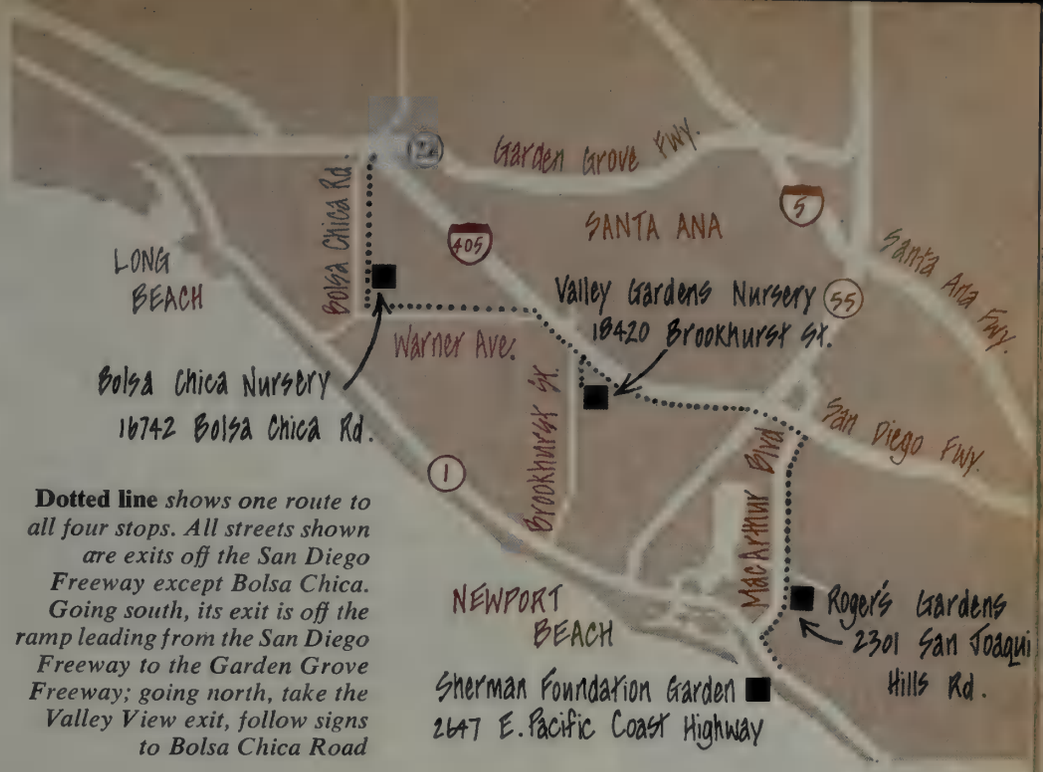
very hour, every day, from 10 to 4, here's a demonstration at Roger's, often n how to plant and care for hanging asket gardens. The nursery is open aily from 9 to 6.

alley Gardens in Fountain Valley is anther colorful nursery housed in sleek, ew buildings. It too has hanging baskets ll of color; a man-made stream bisects e nursery. There's an amphitheater for lks and demonstrations, and an indoor eeting room for local garden clubs. ours are 9 to 5:30 every day.

olsa Chica Nursery in Huntington each takes advantage of Orange ounty's mild weather another way. ere you'll find lush green plants more an flower color. Rare subtropical and opical plants grow indoors and out, andsomely potted up. They also have an nusually good selection of fine pots ithout plants in them. Hours are 8 5:30 daily.

offee break

he Sherman Foundation Garden in orona del Mar is a new, compact otanic garden. You'll see lots of color, uch of it in pots. You'll also find a oice collection of rare tropicals in a onservatory and lathhouse. There's a panish courtyard where you can buy offee and something sweet. The garden open every day from 10:30 to 4 (the offee garden closes at 3). Admission is $1; visitors 12 to 16 pay 25 cents; admission is free on Mondays.



Dotted line *shows one route to all four stops. All streets shown are exits off the San Diego Freeway except Bolsa Chica. Going south, its exit is off the ramp leading from the San Diego Freeway to the Garden Grove Freeway; going north, take the Valley View exit, follow signs to Bolsa Chica Road*

Koi show, camellia festival, more

Two of the nurseries have an active program of talks and demonstrations, and they also host flower shows. Here are the events scheduled for February.

February 5 and 6: *Camellia festival* at Roger's Gardens; talks both days at 11 A.M., 1 P.M., and 3 P.M., cover camellia history kinds, and care. Displays will include many varieties of camellia flowers. *Dry flower arrangement demonstration* at Valley Gardens, 11 A.M. Saturday and 2 P.M. Sunday.

February 12 and 13: *The Sixth National U.S.A. Koi Competition* at Valley Gardens. Colorful Japanese carp will be on display from noon Saturday until 5 P.M. Sunday. You can enter koi before 10 A.M. Saturday.

February 19 and 20: *Azalea show* at Valley Gardens, all day. Talks at 9 A.M. Saturday and 2 P.M. Sunday.

February 24: *Talk on bromeliads* at Sherman Foundation, 7:30 P.M.

February 26 and 27: *Talk on low-light house plants* at Valley Gardens, 11 A.M. Saturday and 2 P.M. Sunday. □

You can see hanging baskets at their best. You can attend a gardening class

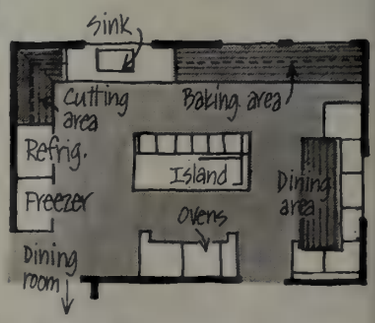
BILL ROSS

Classes *are a regular event at Valley Gardens (shown here) and Roger's—they even have amphitheaters*

Stainless steel hooks *above the exhaust fan were made by a fabricator of store display racks*

Favorite pots and pans *fan out on cabinet door shelves. Tile-covered doors get strong support from stainless steel piano hinges*

Every pot *can be on the front burner with this linear range; it's made up of three two-burner commercial kitchen units. Burner in foreground is fitted with steel griddle section*



New work centers *mean greater efficiency, a place for each task*

Experience designed this bright kitchen. It has only front burners, visible tool storage, no wasted space

Her island-idea kitchen

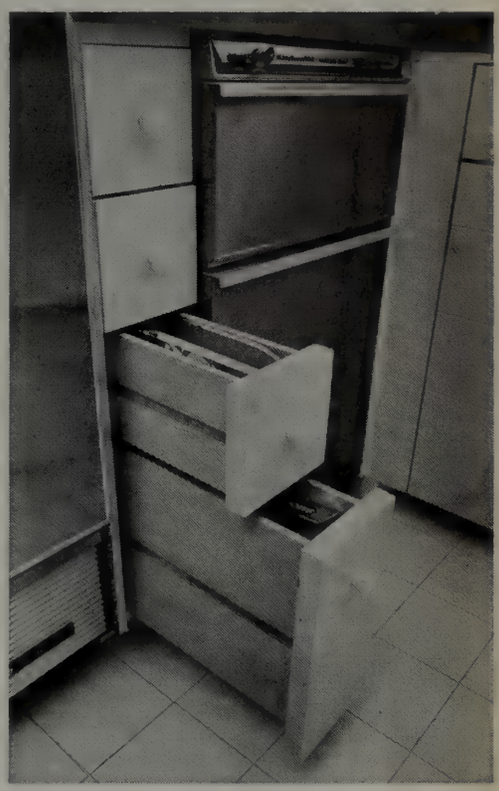
Baking center *has beech counters, custom-made acrylic canisters above. Tabs of canisters pull to open bottom slots and dispense staples*

Built-in dining area *by kitchen window is where family and friends gather to visit with the cook. With lights dimmed, it's a favorite dining spot*

GLENN CHRISTIANSEN

The combination *of spacious work surfaces, good light, good equipment, and thoughtful organization make this kitchen comfortable and easy to work in*

Slots *in cutting-board counter make a safe and handy knife rack. This experienced cook knows her knives by their handles*



Not an inch *of wasted space: 4-inch gap between trash compactor and refrigerator is used to store rolls of foil, plastic wrap, and wax paper*

Raising five children gave Mrs. Malvern Dorinson plenty of kitchen experience, so when it came time to remodel she had some ideas about what she wanted. But it took architect David Stovell of Ross, California, to bring it all together. The result of their collaboration is this bright, functional kitchen. It's so pleasant to be in that Mrs. Dorinson sometimes naps on the built-in dining seat when the room isn't filled with family or friends (14 last Christmas).

Appliances, tools, and work surfaces were placed according to their uses. At the heart of the kitchen is a fully tiled island that holds a long bank of burners, a charcoal broiler, and plenty of storage for pots and pans. It also has a warming drawer and smooth tiled surface, creating a staging area for foods ready to go to the nearby kitchen table or the adjacent dining room. Above the island is an exhaust hood, which also serves as a rack for frequently used tools.

Throughout the kitchen, many favorite utensils are on display and ready for use. The wood counter between refrigerator and sink stores knives and is designed for cutting; the sink area is for cleanup chores; and a long counter serves as a baking center.

Three materials cover surfaces throughout the kitchen:

Stainless steel is found on many of the appliances, and was used for the vent hood and around the existing sink and the recessed ceiling lights that are positioned to focus on specific tasks.

Wood was selected for several work counters, shelves, and trim around the plastic-paneled ceiling lights, as well as to face the above-counter cabinets (not new but stripped for the remodel).

White satin-finish ceramic tile covers much of the rest of the kitchen, including the floor and below-counter cabinet fronts. Piano hinges and other heavy-duty hinges were added to existing cabinet doors to support the added weight. Tile also covers the ceiling and some of the work counters; it brightens the room and is an easy surface to keep clean.

The old windows, which match the rest of Dr. and Mrs. Dorinson's 60-year-old shingled bungalow, were left as is. Their small panes and touches of wood help soften the somewhat commercial quality of the steel and tile. □

The curry mystery

There is no one curry and "curry" itself is probably a British colonial invention. Here (and on pages 126 and 127) we share curry secrets from India, Nepal, Pakistan, Indonesia, Thailand, Burma. Dive in

"What is curry?" we asked some Indian and Southeast Asian cooks. To explain, they cooked many dishes for us. All were curries, but none tasted or looked much like the dishes American and European cooks make with curry powder.

This discrepancy is rooted in the odd history of curry and can open up a whole new area in curry tasting. The authentic versions pictured and described here get their flavors from intricate combinations of different seasoning elements; you'll find an introduction to them when you turn the page.

The recipes on these pages and on pages 126 and 127 represent the cooking of different regions and a broad range of tastes from hot and spicy to mild and sweet. Curry lovers and tentative tasters —find your niche.

A curious history

Before the arrival in India of European traders and soldiers in the 1600s, curry powder did not exist. In fact, no such class of foods as *curries* existed.

It's true that for thousands of years Indians had been using a wide variety of spices, roots, and herbs to flavor their foods. They ground them into powders with mortar and pestle, generations of cooks perfected certain combinations to best suit certain foods, and special dishes evolved—each with its own name. But it wasn't until the 17th century, when Portuguese traders introduced chile peppers to India, that hot spiciness became a characteristic of these mixtures.

Most likely it was the British who, after tasting exotically flavored foods in India, determined to bring some of these seasonings home; then blends began to be packaged and sold. The name curry may have derived from the Tamil (South Indian) word *kari*, meaning sauce; or from the North Indian dish *karhi*; or from the herb called kari leaf.

Whatever the source, the birth of curry powder brought about the Anglicized definition of curry—a thickly sauced vegetable or meat dish seasoned with curry powder. Today even many Indians and East Asians use the word curry for certain spicy stewlike dishes. But, as for hundreds of years, each dish has its special blend of spices which cook slowly and long to remove all harshness. Long cooking often reduces the ingredients to the desired consistency; no thickeners such as flour or cornstarch are used.

Nor are Eastern curries served, as here, with many condiments to sprinkle on top. They're usually served plain, or with just one or two. Menus are planned with raw and cooked vegetables and grains to balance the meal.

A curry for every climate

Within India alone, vast numbers of curries are made. Local climate, ingredients, and tastes determine the dishes most favored in each area. For instance, in more moderate climates such as North India, Pakistan, and Nepal, curries tend to be fairly mild but fragrant with sweet spices. In the hotter climates of Southeast Asia and South India, they tend to be hotter with chiles, and include such tropical ingredients as coconut milk, lemon grass, and tamarind.

Religion also dictates the kind of curry. Hindus make vegetarian curries. Moslems as in Pakistan favor meat curries. Most Buddhists make both kinds.

Probably the favored curry in most of the countries is chicken, so we begin with four chicken curries—each representative of its country's flavors, yet distinctly different from the others. The North Indian version is spicy but mild, with a thick sauce of puréed onions. Nepal's is laced with nuts, raisins, and lots of garlic; the sauce is mild and fragrant with sweet spices. The Indonesian dish, simmered in a thin, creamy coconut sauce, is slightly sweet and mild. Thailand's offering also has a thin coconut milk sauce, but the hottest spices.

We also suggest a beef variation for one chicken recipe. Four more to choose from—lamb, cheese and peas, fish, pork and shrimp—are on pages 126 and 127.

If this style of curry is new to you, start with a simple, mild one such as the North Indian or Indonesian chicken. Then move on to the spicier ones. For a simple meal, serve alongside some rice and a green salad or sliced raw vegetables such as tomato, onion, and cucumber.

For a larger group or a more elaborate presentation, you might serve several curries at one time, as is done in Eastern countries. Accompany the Indian, Pakistani, and Nepalese curries with yogurt, fresh or preserved chutney, pickles. Also

North Indian. *Raj Kohli treats guests her favorite curries: chicken in a thi spicy-yet-mild sauce (recipe on page 8 and fried homemade cheese cubes w peas (page 126). Both go with co crunchy vegetables and yog*

Indonesian. *Fah Liong prepares to co one of her specialties—whole red snap simmered in a tart, moderately hot, ligh spiced sauce of coconut, oni chiles. Fresh mint is the garni The recipe is on pages 126 and 1*

DARROW M. WATT

Pakistani. *Abdul Rahman, owner of San Francisco's Kismet Restaurant, shares his famous lamb curry (recipe on page 126). Its mild, spicy flavors are accented by lime wedges, chutney, yogurt. Rice, flat bread, and a crisp salad go alongside*

GLENN CHRISTIANSEN

DARROW M. WATT

How to get curry flavor?

You get curry from these ingredients—and others—in different amounts and combinations.

Chiles. Fresh, canned, or dried. Red or green. Remove some or all seeds for less hotness. Chile powder makes very mild, red curry. For more hotness, add cayenne.

Coconut milk. Adds sweetness, creaminess; tempers chile hotness, thickens sauce. Buy it frozen in Oriental or gourmet stores.

Or make your own. With a nail, punch holes through eyes of 1½-pound coconut. Drain, discard liquid. Bake in a 350° oven 30 minutes. Crack around center, cool, remove meat, peel skin. Whirl chunks (or 1½ cups packaged unsweetened shredded coconut) in a blender with 2 cups boiling water until well mixed; let stand 30 minutes. Strain, pressing out liquid; discard meat. Makes 1½ cups.

Fish soy (*nam pla*). Thin, strong-smelling, salty sauce made from fish; sold in Oriental markets. Thais use it like salt or soy sauce; use either instead.

Fresh coriander (cilantro or Chinese parsley). Aromatic, pungent herb resembling parsley; sold in Oriental and Mexican markets. Use leaves as flavoring (or substitute dried leaves, sold with spices) or as garnish (can use parsley instead).

Garlic, onion, fresh ginger. Used in most curries as seasonings. Onions thicken sauces.

Lemon grass (*sere, takrai*). Dried stalks of fragrant lemon-flavored tropical grass. Can use crushed lemon grass sold as tea in natural food, tea stores.

Shrimp paste (*blachan, terasi, kapi*). Strong-smelling, fermented shrimp paste sold in Oriental stores. Alternative: anchovy paste.

Spices. Coriander and cumin seeds give warm, slightly bitter taste, pungent aromas. Cinnamon, mace, clove, cardamom add spicy sweetness. Turmeric, saffron give rich yellow color.

Some of these spices go into *Garam masala*, used as aromatic garnish. Buy it in gourmet or Middle Eastern stores. To make your own, see next page.

Tamarind pods. Dried brown pods add tartness. Sold in Oriental and Mexican stores. Lemon juice is a substitute.

Cool to superhot, mild to spicy, chicken to beef to vegetable. What you do is orchestrate the spices

erve rice, pilaf, or warmed flour tor-llas (they resemble some Indian flat reads). With the Southeast Asian cur-es, serve plain rice and a clear brothlike oup. Vegetables, sliced raw or simply ooked, go well with any of them. End e meal with cool tropical fruits. Fruit unch, beer, and white wine go well with ese menus.

'or the most authentic curries, you'll vant to use the ingredients introduced n the opposite page—but it's possible o omit them or use readily available ubstitutes.

Vorth Indian Chicken Curry *Murg Masalam)*

n a blender, purée 2 medium-sized on-ons, cut in chunks; 2 cloves garlic, 4 cup water, 3 tablespoons coarsely hopped fresh ginger, 1 to 2 teaspoons inced fresh or canned jalapeño chile emove seeds for less hotness).

n a heavy 12-inch frying pan or 5-quart Dutch oven, cook onion mixture, uncov-red, over medium-low heat, stirring ccasionally, until dry and thick, about 0 to 15 minutes. Stir in ⅓ cup salad oil, tablespoons canned tomato paste, 1½ aspoons salt, 1 teaspoon turmeric, ½ aspoon cayenne, and ½ cup unflavored ogurt. Cook, uncovered, over medium-ow heat, stirring occasionally, 8 to 10 inutes longer.

Remove skin from 16 chicken drum-ticks, or 8 whole legs with thigh and rumstick cut apart (about 4 lbs.). Add hicken to sauce, turning pieces to coat; over tightly and simmer, stirring occa-ionally, until chicken is no longer pink hen slashed in the thickest part, 45 inutes to 1 hour.

Cool, cover, and chill if made ahead. To eheat, cover and cook over low heat, tirring occasionally and adding a few ablespoons of water if necessary, until ot. Transfer chicken pieces to serving ish. Skim off and discard fat from auce. Pour sauce over chicken. Sprinkle ith 2 teaspoons *garam masala* (recipe ollows) and 2 tablespoons chopped or hole fresh coriander leaves. Makes 8 ervings.

Garam masala. Cook 3 tablespoons cori-nder seed and 2 teaspoons cumin seed ver medium-low heat, shaking pan ften, until lightly browned, about 4 inutes. Place in a blender; add 8 whole loves, 1 stick cinnamon (2 inches long), ½ teaspoon whole black pepper, 4 bay leaves. Grind finely. Store airtight. Makes about ⅓ cup.

Nepal-style Chicken Curry

Pour ¼ cup salad oil into a heavy 12-inch frying pan; place over medium-high heat. Add 1 large onion, sliced; 12 whole cloves garlic; 2 tablespoons minced fresh ginger; 1 stick cinnamon (about 2 inches long); and 2 whole cardamom, shells removed. Cook, stirring, until onion is browned, about 5 minutes.

Add 1 large tomato, peeled and cut in eighths. Cook, stirring occasionally, until liquid evaporates. Stir in 1 tablespoon *each* ground coriander and shredded unsweetened coconut, 1½ teaspoons ground cumin, 1 cut-up broiler-fryer chicken (about 3½ lbs.), ½ cup water, and 1 chicken bouillon cube. Cover and simmer about 45 minutes or until meat is no longer pink when slashed near the bone. Cool, cover, and chill if made ahead. To reheat, cover the curry and simmer until hot.

Transfer meat to serving dish. Stir into sauce a pinch of saffron, 1 tablespoon *each* salted roasted cashews, and raisins, and salt to taste. Boil, uncovered, until reduced to 1 cup. Skim and discard fat. Pour sauce over chicken. Garnish with 2 hard-cooked eggs, sliced, and fresh coriander leaves. Makes 4 servings.

Indonesian Chicken Curry *(Kare Ayam)*

- 1½ cups water
- 1 medium-sized onion, cut in chunks
- 8 blanched almonds or 4 salted roasted macadamia nuts
- 2 cloves garlic
- 1½ teaspoons coarsely chopped fresh ginger
- 2 tablespoons salad oil
- 1 teaspoon shrimp or anchovy paste (optional)
- 1 broiler-fryer chicken (about 3½ lbs), cut up
- 1 tablespoon *each* ground coriander and chile powder
- ¾ teaspoon turmeric
- 2 teaspoons sugar
- 2 teaspoons crushed lemon grass or 1 stalk (about 6 inches long)
- 1½ teaspoons salt
- 2 medium-sized potatoes, peeled and cut in 1½-inch chunks
- 1½ cups coconut milk (see page 80)

In a blender, combine ½ cup of the water, onion, almonds, garlic, and ginger; whirl until smooth. Pour oil into a heavy 5 to 6-quart Dutch oven or 12-inch frying pan; place over high heat. Add onion mixture and shrimp paste. Mash paste with a spoon and cook, stirring occasionally, until all juices from the onion have evaporated, about 5 minutes.

Add chicken; stir to coat. Stir in coriander, chile powder, turmeric, sugar, lemon grass (put in teaball if crushed), salt, and remaining 1 cup water. Add potatoes; cover and simmer 30 minutes.

Stir in coconut milk. Simmer, uncovered, stirring occasionally, until chicken is no longer pink when slashed near the bone, about 15 minutes longer. Skim off fat. Remove lemon grass. Cool, cover, and chill if made ahead. To reheat, cover and simmer, stirring occasionally, until hot. Makes 4 servings.

Indonesian Beef Curry. Follow recipe above, but instead of chicken use 3 pounds boneless beef stew meat, cut in 1-inch cubes. Add meat to onion mixture; stir in remaining spices and water as directed. Cover and simmer until meat is almost tender, about 1½ hours. Then add potatoes, cover, and simmer another 30 minutes or until almost tender. Add coconut milk and simmer, uncovered, 10 to 15 minutes longer. Makes 6 to 8 servings.

Thai Chicken Curry *(Kaeng Phet Kai)*

- 1½ cups coconut milk (see page 80)
- Curry paste (recipe follows)
- 2 chicken breasts (about 1 lb. *each*) skinned, boned, and cut in ½-inch-thick strips, about 3 inches long
- ½ cup water
- Fish soy, soy sauce, or salt
- 2 tablespoons dry basil
- 1 fresh, pickled, or small dried hot red chile (optional)

Skim off all heavy cream floating on top of coconut milk and put it into a measuring cup. Add more of the thinner milk, if necessary, to make 1 cup total.

In a heavy 3 to 4-quart saucepan, combine the 1 cup coconut milk and curry paste. Cook, stirring occasionally, over medium heat, until liquid evaporates and spices begin to fry in the oil from the coconut milk, about 10 minutes. Stir in the chicken pieces to coat. Gradually stir in the remaining ½ cup coconut milk and water.

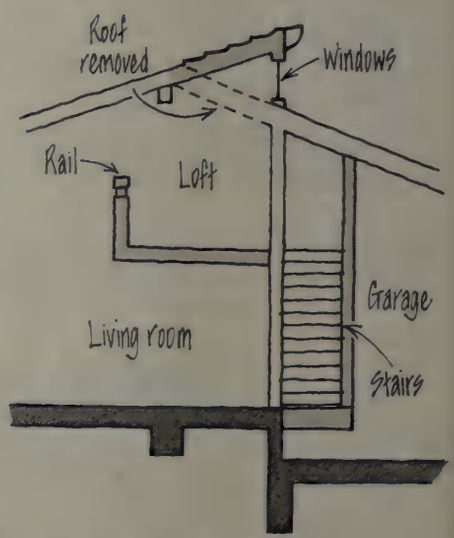
Simmer, uncovered, stirring occasionally, until chicken is no longer pink when cut, about 10 minutes. Add fish soy to taste. Cool, cover, and chill if made ahead. To reheat, simmer, uncovered, stirring occasionally until hot. Skim fat. Turn into serving dish, sprinkle with basil, and float chile on top. Makes 4 servings.

Curry paste. In a blender, grind 1 tablespoon *each* crushed lemon grass and coriander seed, 4 to 6 small dried chiles (remove seeds for less hotness), 2 teaspoons *each* whole black pepper and cumin seed. Pour through a wire strainer; discard shells. Return ground spices to blender; add 2 teaspoons paprika, 1½ teaspoons shrimp or anchovy paste, 1 teaspoon *each* salt and chopped fresh ginger, 8 cloves garlic, 1 onion cut in chunks. Whirl until smooth. □

Lengthwise view *of new loft at right shows center beam, the original apex of roof. Stairs come up behind shelves at far right. Below, you see how loft lowered part of nearly two-story living room to 8 feet. Stairs are behind far wall*

BILL ROSS

Clerestory windows *of new loft rise above garage. Pitch of roof on other side continues up over the addition. Enclosed stairway is at rear of garage*



Raising the roof *increased head room in loft, let in plenty of light. Stairs cantilever over garage space to maintain two-car capacity*

Over the living room is a new loft. There was no place to go but up

With a baby on the way, Russell and Debby Barto began looking for surplus space to expand the living area of their home on California's Palos Verdes Peninsula. What they found to work with was the small attic, the attractive but inefficient cathedral ceiling in the living room, and a storage closet between garage and living room.

Architect Barto cut through the roof and fitted in a loft that extends over part of the living room. He used garage space and the old closet to accommodate a stairway and landing behind an existing living room wall.

The resulting 250-square-foot loft is a combination work, entertainment, and getaway space. It stays warm enough on many winter evenings to let the Bartos turn off the heat downstairs and read or watch television in their new perch. In summer months, the three new clerestory windows let out the heat, increase air circulation, and flood the once-dark living room with light.

An engineer checked plans and the foundation before a permit was issued. Then work had to proceed quickly once the roof was cut—neighborhood cats kept finding their way inside.

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Chrysler Cordoba

1 • *Rear screens come off first. Taller sections hinge to each side; center section lifts out*

NORMAN A. PLATE

2 • *Mr. Bauer removes 2-by-8 floor planks spaced ½ inch apart; only the first one bolts to girders*

This convertible carport sometimes is a pass-through

The ground was sloping—but Erwin Bauer of Berkeley wanted to build a carport that would also allow auto and truck access to the back yard so he could dump topsoil and haul out debris.

His solution: a carport with a back wall and floor that he can dismantle in less than 30 minutes. The floor planks rest on stationary side rails and are supported in midspan by two girders. These bolt to concrete pads that extend the length of the carport and serve as a driveway when the floor is removed.

Constructed of rough redwood, the lightweight structure resists decay. Sides and back wall are made of 1 by 1's nailed to a 2-by-2 frame. □

3 • *Last step is to remove support girders (1 by 8's nailed to 2 by 2's). Now car or truck can back right into back yard*

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CP Rail
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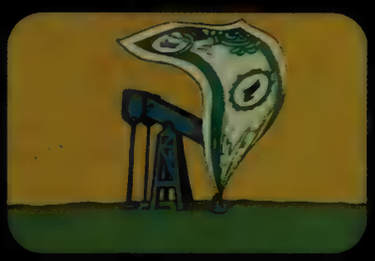
The TV commercial people are talking about.

A few scenes showing the profit Chevron earns on every sales dollar.

1.
Chevron, a lot things eat into ery sales dollar ore it becomes profit.

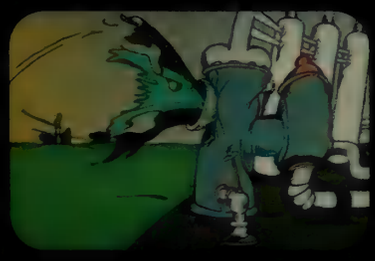
2.
cquiring the oil our old friends, e dinosaur and ers, left behind akes a big bite.

3.
Exploring for re oil and keep- that oil up and ing drills a few es in our dollar.



4.
Transporting oil kes its toll, too.

5.
efining oil takes lot out of every llar. Then there the costs of jobs nd facilities, and ormal business expenses.



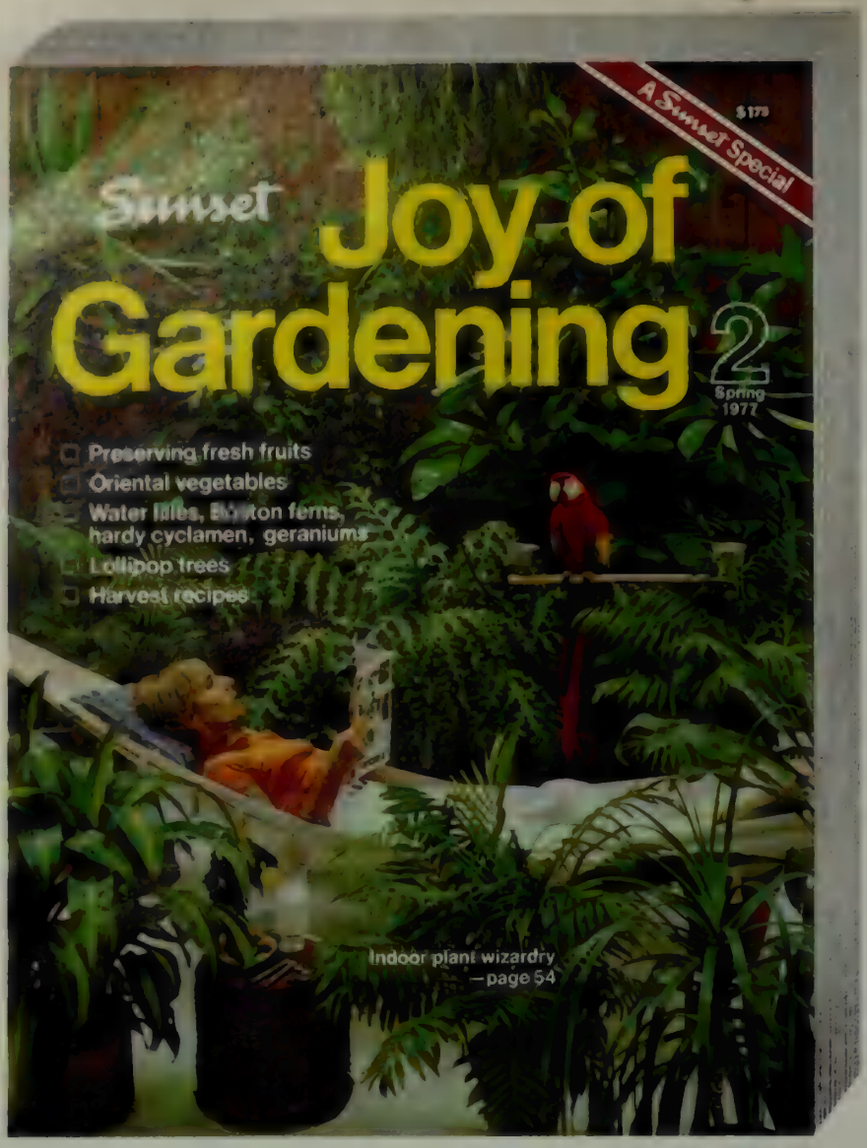
6.
Finally, Uncle Sam and others collect their share.

7.
What's left? About 4¢ profit. That's equal to about 1½¢ profit on every gallon of crude oil and petroleum products we sold.

8.
Part of this went back to the thousands of Chevron shareholders.

9.
The rest was reinvested back in the business, exploring for more oil, energy research. And a lot more.

10.
Putting profits back to work. That, too, is the Chevron Way.



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NORMAN A. PLATE

Air circulates *under wood rack to help cool hot-from-the-oven tube cake*

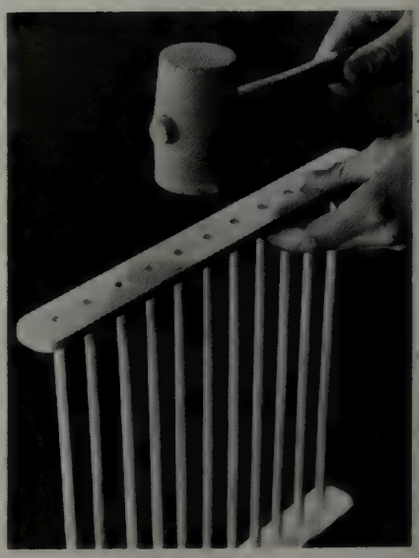
Good-looking rack for cooling cakes

Most cooling racks are nondescript wire squares that get tossed in the back of a cupboard—but this handsome wood rack is something good cooks may even want to display.

To make a 12-inch square rack, you'll need two pieces of pine or redwood lattice (each about ¼ by 1½ by 12 inches), 11 feet of 5/16-inch dowel, white glue, and Danish oil.

Cut the dowel into 1-foot lengths. Mark the center of each lattice piece, then mark five points an inch apart in each direction for the 11 holes. Drill a 5/16-inch hole through each mark. Put glue inside the holes on one lattice piece and push dowels into place. Glue holes on the other side piece and carefully fit each dowel into a hole (it's easier with a little help). Then gently pound the side piece onto the dowels.

Wipe off excess glue, let dry, sand, and finish with a coat of Danish oil. □



Pound *the second side piece onto dowels with a soft mallet*

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(DIAGONAL)

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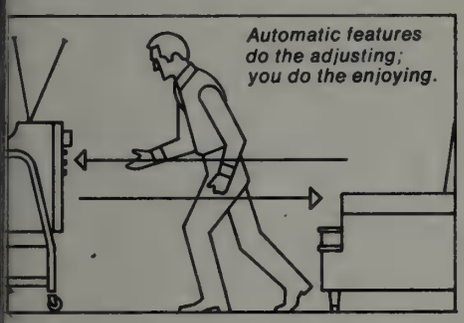

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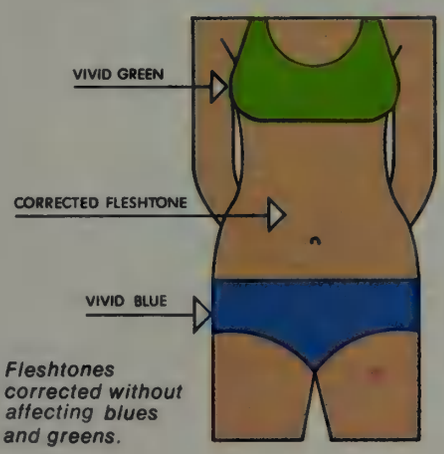

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Dollar's Worth from Mary Willis

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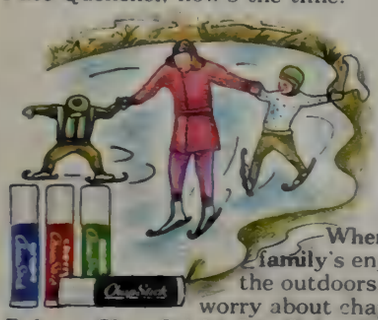


When your family's enjoying the outdoors, don't worry about chapping. Rely on **Chap Stick**® **Lip Balm**. You can count on Chap Stick to protect lips three ways: It shields lips from chilling cold and dry heat. It coats lips to help retain natural moisture. And it can help soothe and heal lips which are already chapped. Chap Stick protects your family. Don't let them go out without it.

NORMAN A. PL

Oak hook *provides hanging spot for a bathrobe or towel*

Make the towel bar *any length you need. Bevel edges on the rod and both brackets*

Hook, towel bar, paper holder . . . all fashioned in oak

The oak fittings shown in this bathroom were made by the owner to blend in with the oak paneling. All three—the hook, towel bar, and paper holder—cost under $5 and took only a few hours to make and install. All were cut from ¾-inch oak board and attached to the paneling with glue and dowels. A power saw or sander was used to bevel edges.

Hook. The protruding part extends at a 45° angle from the wall and measures 1¼ inches along the upper surface. The surface that attaches to the wall is 2 inches long. Saw out the entire piece, then bevel all edges except the surface that fits against the wall.

Towel bar. For the brackets, cut two pieces of wood 2½ by 3½ inches. Bevel all edges except the surface that attaches to the wall. For the rod, cut a 1-inch-wide strip of oak to the length you need and bevel the edges.

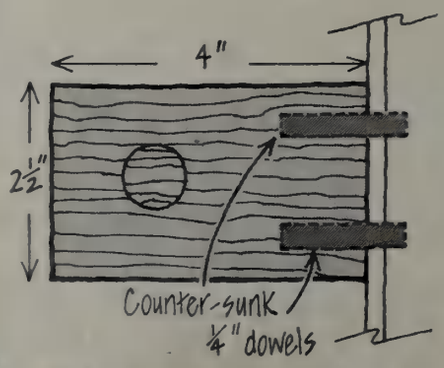
To chisel sockets for the rod, first mark each bracket by placing the end of t rod on the bracket and tracing its outli with a pencil. Chisel out about ¼ inc Attach one bracket to the wall and ho the towel bar in place in its socket whi you position and attach the other.

Paper holder. Cut two brackets 2½ 4 inches. Bevel all edges except tho that will go against the wall, then dr slightly oversized holes centered 1 inc from the front inside edge of bo brackets to hold a spring-loaded inse sold at hardware stores.

To attach fittings, drill holes in wa paneling and in wood fittings larg enough to accept short lengths of ½ inch doweling (two pieces of dowel f each fitting). Glue and set as in sketch.

Finish fittings with clear polyurethar sealer. Use several coats on the tow rod and hook to protect from wetness.

Fittings were designed and made b Gordon Hammond.



Sketch shows *how blind dowels are glued into the paper holder brackets and the wall. All fittings shown here were attached this way*

Twindow insulating glass, comfort with a view.

erculite K safety glass for patio doors.

Mirrored wardrobe doors of High-Fidelity float glass.

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And our High-Fidelity® float glass mirrors give you—you, in an incredible variety of styles. One, shown above, hides a closet, then opens to give you a fabulous full-length, three-way view.

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PPG: a Concern for the Future

PPG INDUSTRIES

PETER O. WHITELEY

Bifolding doors *open out and stay flat. Large glass panels in doors make interior of garage a light and pleasant place to work*

NORMAN A. PLA

Crawl space *stores plywoo iron brackets on wall hold lumb*

Bifolding doors were the answer

Combining a garage and workshop can be an important consideration in home-building plans. Mr. and Mrs. Gene Hennen of Berkeley wanted a light and pleasant atmosphere to work in, but with enough space for their car and extra storage needs.

Garage doors were their first problem. A sliding door was ruled out because of the hillside location of the house; an overhead door was impractical because it limited head room. The answer: bifolding doors. Opened, they stay flat to provide auto passage; closed, their glass panels let in generous light to work by.

To gain maximum storage space, the Hennens used the easily accessible crawl space under the house. It was partially enclosed, then fitted with shelves to hol lumber and sheets of plywood. Whe the concrete retaining wall was beir poured, they set in mounting bolts fo iron brackets that would act as storag racks for long boards. (Bolts could b set in existing concrete walls by usir dry-concrete anchors available at buil ing supply stores.)

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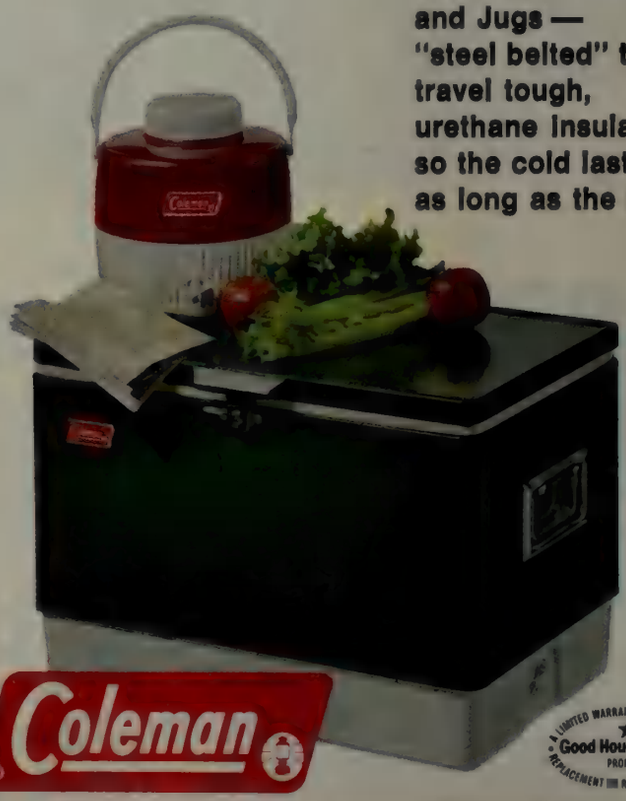

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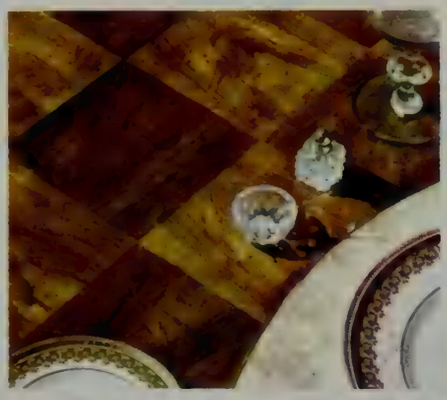
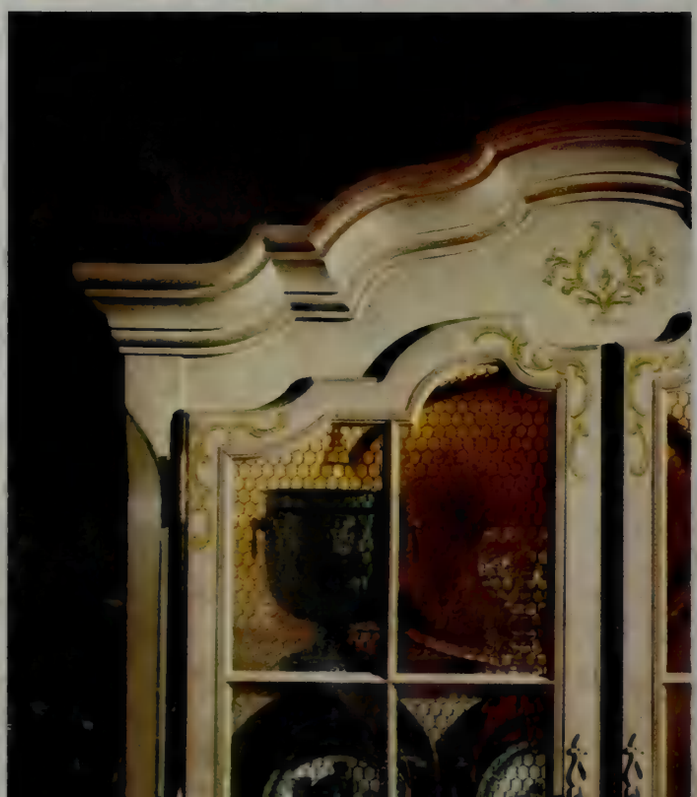
Over the years these costly, extra steps have been abandoned by most furniture makers. But at Heritage, we know furniture this lovely can never be made by machinery alone. It demands the hands of skilled craftsmen. Only this way can we create furniture that will remain beautiful for years to come.





On these pages: Grand Tour III Collection

Front Page: Heritage Upholstery and Sketchbook Collection.

Back Page: Cameo II Collection.

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RICHARD FISH

Platform deck *is a sunny spot protected from street by U-shaped enclosure*

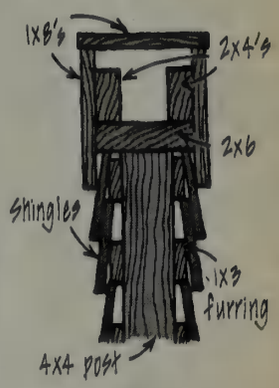
Fence wraps around streetside deck

Cars may be passing by only a few yards away, but this small deck remains a private retreat behind shingled walls.

Architect Jerry Kasparek of Corona Del Mar, California, put his deep, narrow front yard to full use by placing the deck as close to the sidewalk as setbacks allow. He nailed 2-by-6 redwood decking over a base of 4 by 4's to create a floating effect, then framed the decking with 2 by 4's mitered at the corners. Heavy plastic beneath the 4 by 4's protects them from ground moisture.

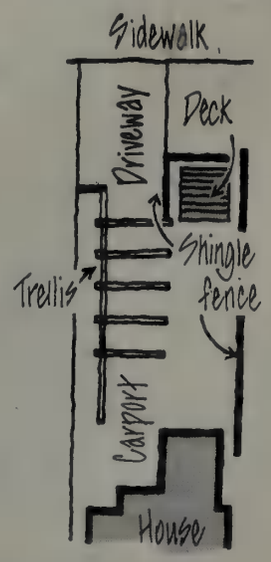
For the fence he set 4-by-4 posts 6 feet apart and capped them with 2 by 6's. Shingles on both sides of the fence are nailed to 1-by-3 furring strips (as on a roof). At the top edges, 1 by 8's hide the last line of nails on the shingle courses. If you live in a relatively dry climate you don't need to cover the "trough" (see top drawing); the 1-by-8 cap (or a 1 by 10 if you want a little more shoulder) helps shed rain.

Kasparek unified the deck and its enclosure with the rest of the front yard and house by erecting a trellis over much of the driveway between one corner of the shingle fence and the carport. □



End view *of shingled fence shows 4-by-4 frame; 1-by-8 cap is optional*

Seen from above, *house is set well back on narrow lot. Trellis over drive ties deck area to house, shades much of yard*



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Afghans in bright contemporary colors, a lacy knitted window shade, and a huge crocheted hammock are just some of the unique projects featured in Sunset's popular *Knitting* and *Crochet* books.

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So, for contemporary designs for traditional crafts, look into Sunset's *Knitting* and *Crochet* books. They're available in bookstores and supermarkets everywhere.

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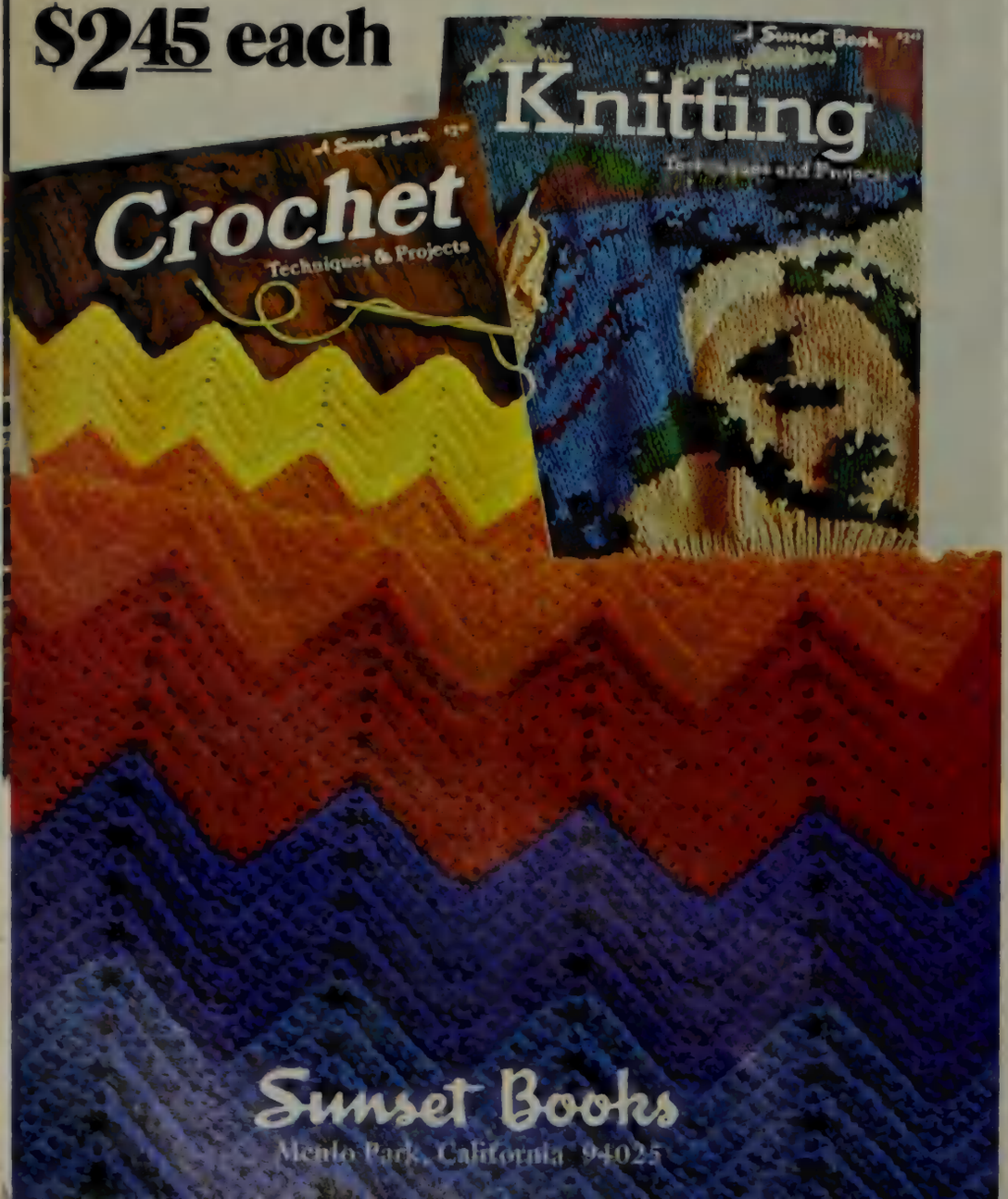


NORMAN A. PLATE

Even heavy casseroles *can't tip fully extended drawers on side-mounted glides*

Three cheers for drawer glides

Side-mounted glides allow drawers to be fully extended without danger of tipping. This means you can use—and see—every inch of storage space. You may even want to use drawers for items you put on regular shelves before—like the cookware and linens shown here.

Glides made to fit drawers 12 to 30 inches long cost about $2 to $15. The heavy-duty ones can hold loads of 50 to 200 pounds.

The room divider shown above was designed by Orange County architect Ken Heims. Michael Moyer Associates of Palo Alto, California, designed the sliding towel shelves pictured below.

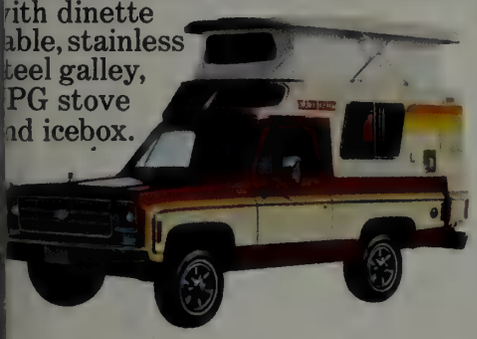
Shallow shelves *that slide out like drawers keep linens within easy reach*

TWO NEW CHEVY BLAZERS. ONE TO LIVE IN, ONE TO LIVE IT UP IN.

BLAZER CHALET.

o ahead. Move in. Live a little. Here's the new Blazer Chalet.

t combines the toughness of a o-almost-anywhere 4-wheel-drive lazer with a spacious home-away-rom-home camper unit. Chalet has fiber-glass-reinforced plastic amper body over a rigid steel rame. It accommodates up to four, ith dinette able, stainless teel galley, PG stove nd icebox.



BLAZER CONVERTIBLE.

o ahead. Live it up. Here's lazer's new convertible.

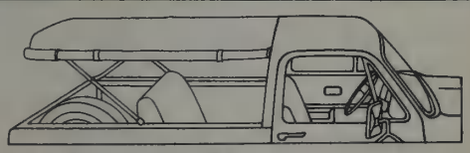
ere's a new way to top off a tough hevy Blazer: A three-position nvertible top that can be ositioned completely up, down or a "Safari" position with the top o and sides open. Top is made of ain- and mildew-resistant vinyl-oated fabric with clear vinyl indows sealed to the fabric.

lazer is also available with andard removable fiber-glass-einforced plastic top that covers e rear seating or cargo area.

CHEVY TRUCKS

BUILT TO STAY TOUGH

Convertible top down. Blazer becomes an open-air vehicle with all attaching parts folding down with the top. Cargo area can hold bulky loads.



Safari position. Enjoy the out-of-doors and still have protection from the sun with the Blazer convertible top in place and side curtains up.

Now Dial soap has a fresh new shape. It fits better in your hand. Feels smooth on your skin. Leaves your whole body feeling clean and refreshed.

And you still can't buy a better deodorant soap. Or one that lasts longer.

In gold, white, richer pink, deeper aqua. Each wrapped up in a fresh new package.

Aren't you glad you use Dial!

Now Dial soap looks as fresh as you feel.

Aren't you glad!

DARROW M. WATT

Double-duty tub *works for bathing or as a cooling pool after warming up on sauna benches at right (they are also used as shelves). Heating unit, between tub and benches, is partially hidden by redwood 1 by 1's*

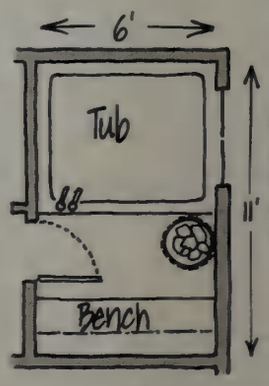
Sauna and bath in just 66 square feet

Instead of placing them in separate rooms, San Francisco architect Rodney Friedman combined bathtub, wood benches, and a sauna heating unit in the same 6 by 11-foot space. His design avoids the expense of two rooms by increasing the flexibility of one—he can always use the tub without turning on the sauna.

To use the sauna, the Friedmans first fill the bath with lukewarm water laced with fragrant bath oil. (The warm water partially heats the room and remains at a comfortable temperature—the owners prefer a warm after-sauna plunge to the icy one of Scandinavian tradition.) They turn on the sauna for about 30 minutes, until the room temperature reaches 170° to 180°, then sit in the heat for about ½ hour.

"When sufficiently toasted, we throw open the windows and climb into the tub," Friedman says.

He used untreated redwood to panel the entire room and redwood 1 by 1's to



Sauna unit *sits next to tub. It plugs into a separate 220-volt circuit*

wrap the cylindrical sauna heating unit. Cost for the heater and controls was about $800. Blue ceramic tiles cover the tub surface and the floor. Hardware includes a shower head on a movable track, a sturdy grab and towel bar, one gooseneck swivel faucet and one long-handled control for the shower.

Maintenance is minimal. A foam cleaner removes any soapy residue from the tub tiles, and the redwood walls require no care. Bath oil helps keep the charcoal-colored grout between the tiles dark and lustrous.

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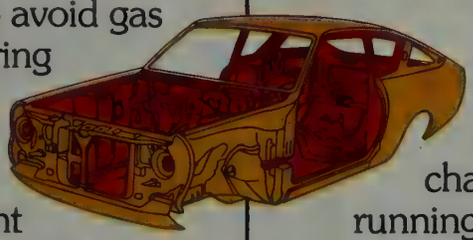

Of course, EPA figures are only estimates. Your actual mileage may vary with your driving habits, optional equipment and the condition of your car.

Are Datsuns tough? Well, our B-210s are tough enough to have been national SCCA champs two years running. And when those sports car drivers drive them, it's all out till they fall out. Mind you, we're not saying Datsuns last forever. Some day, you might need a part or two. No problem. Datsun service is coast to coast.

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Once you do, you'll wonder why it took the dawn so long to come.

How to bea

Burglars hit a home every twenty seconds. But if the burglar picks out your house instead of the one next door, you probably helped invite him there. He looks for what the police call "targets of opportunity." In other words, easy pickings.

To protect yourself, make your home look occupied when you're away. Chances are the thief will pass it up for an easier target. Also, make a reasonable investment in good locks, lights, and possibly an alarm system. It can pay off in security and peace of mind. Here are some specific measures you can take.

Leave a radio on. It says someone's home. If you have a volume adjustment on your telephone bell, turn it to the lowest level. A prowler will be less likely to hear an unanswered call.

Leave drapes and shades open. When they're closed, they're a sign of an unoccupied house.

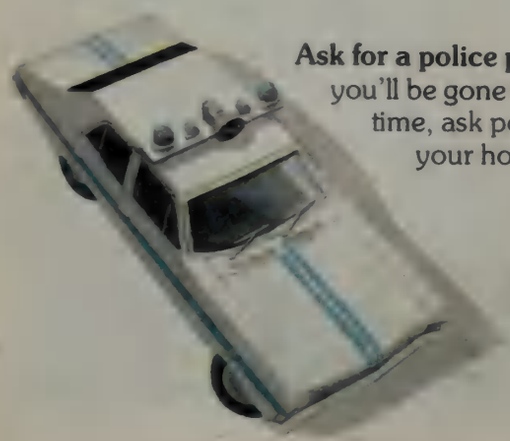
Have your lawn taken care of. Dry, uncut grass says you're away. Have snow shoveled from walks, steps and drive.

Put peepholes in doors. The kind with a magnifying glass lens that lets you see who's out there without opening the door. Never leave a note on your door.

Take care with keys. Don't leave a key under a doormat, flower pot, or on a window ledge. Burglars look there first. Never leave an ignition key in your car, and never put a house key on your ignition key ring.

Don't stop all deliveries. Cancel the milk, but have a neighbor pick up mail, newspapers and circulars daily.

Display "beware" signs. Even if you don't have a dog or an alarm system, put up signs that say you do. They deter thieves.

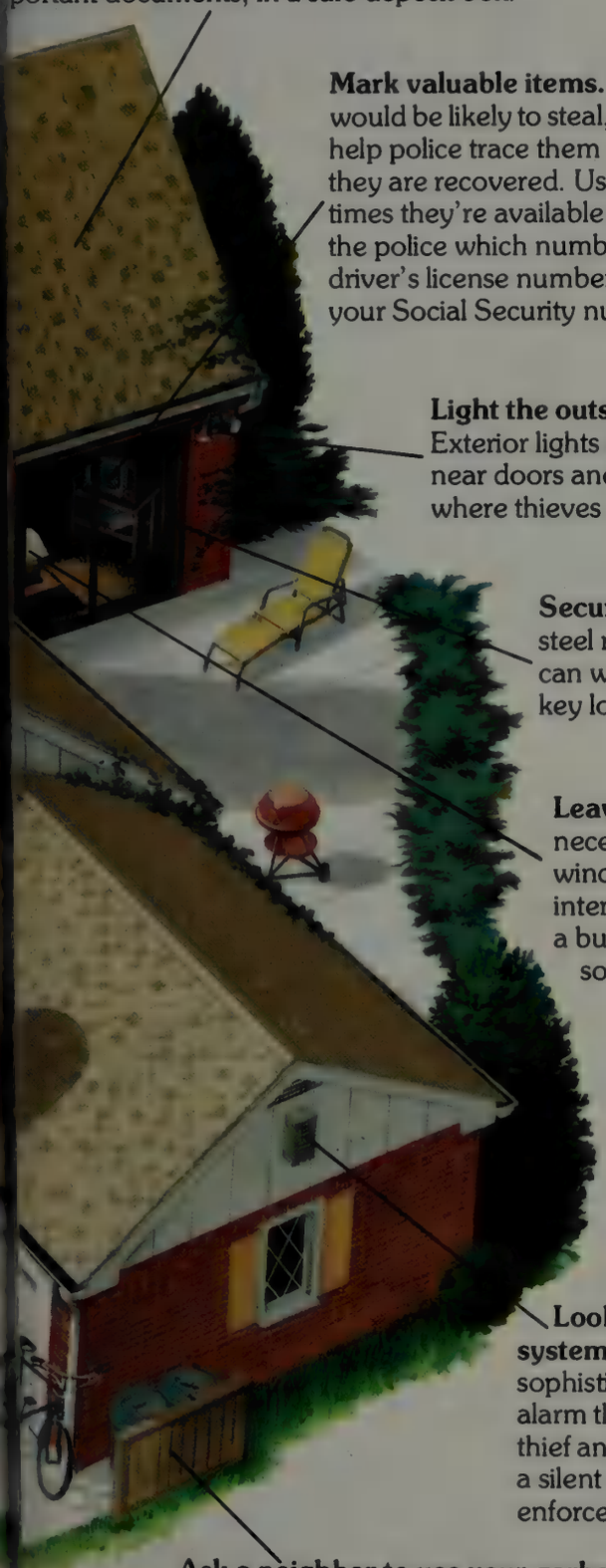


Ask for a police patrol. When you'll be gone for an extended time, ask police to check your home periodically.

Park a car in your drive. If you have a second car, leave it in the driveway. Or ask neighbor to park there. This not only gives the appearance of an occupied house, but prevents burglars from backing up a van fo loading.

he burglar.

n't keep expensive jewelry at home. ep it, along with other small valuables and portant documents, in a safe deposit box.



Mark valuable items. Marking things a thief would be likely to steal, like the TV and stereo, will help police trace them and return them to you if they are recovered. Use an engraving pen. Many times they're available at your police station. Ask the police which numbers to use. Usually your driver's license number with state abbreviation or your Social Security number is recommended.

Light the outside of your house, too. Exterior lights are important. Especially near doors and in the rear of the house, where thieves do most of their work.

Secure patio doors, too. A steel rod in the door channel can work. A pin-type lock or a key lock is better.

Leave interior lights on. Not necessarily the lamp in the front window, but in one or two interior rooms. They can decoy a burglar into thinking someone's inside.

Get automatic light timers. They turn lights on and off in different rooms at designated times.

Look into a burglar alarm system. They vary in sophistication from a simple alarm that makes noise, scares a thief and alerts the neighbors, to a silent alarm linked to a law enforcement agency.

Ask a neighbor to use your garbage cans. An empty garbage can is a tip-off that you're away. Spotters for burglary rings sometimes work for refuse collectors.

Keep garage door closed, locked. This helps protect any valuable property you store in garage and prevents access to interior doors to house.

Consult a good locksmith. Different kinds of doors require different kinds of locks. Many experts recommend deadbolt locks that must be operated with a key, or pin tumbler cylinder locks. Be wary of a deadbolt that must be opened by a key from the *inside.*

Don't forget window locks. You need either a sash fastener that can be locked with a key or a cylindrical mechanism with a latch that fits into the bottom sash of the top window. Again, check with a locksmith.

Make an inventory. List valuable items, the date of purchase and original price. Save receipts and serial numbers if possible. Give a copy to your insurance agent; put another in your safe deposit box. If you have a loss, it will help establish proof of value for filing an insurance claim.

I would like more information about burglary prevention. Please send me your free booklet. (I understand that no one will call as a result of my response to this offer.)

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Regal. The Buick you buy by the seat of your pants.

The reasons for buying a mid-sized car are pretty well established, wouldn't you say? Small. Light. Maneuverable.

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Well, Buick's new mid-sized Regal Coupe is trying to do more than just make sense.

And we maintain that once you sit in one, you're going to have more than practical arguments for acquiring one.

You settle into cushiony notchback seating, covered this year with either fabric or soft vinyl. On your right, a big, soft, fold-down armrest makes things a tad more comfortable.

But that's just the standard seating. As you can see above, there are a number of available choices in a Regal Coupe. All of them luxurious. All of them worthy of a Buick.

Facing you is the instrumentation. Rich and readable. An available Delco stereo sound system provides atmosphere.

You turn the key, and the Regal Coupe's V-6 engir comes to life.

You drop the shift lever into Drive, and the Regal Coupe's standard Buick-smooth automatic transmissio takes it from there. Those power front disc brakes are standard. So is the power steering.

The car is tight, the interior surprisingly quiet.

No, Buick's Regal Coupe isn't the sort of mic sized car you buy just with your head.

Don't be surprised if you end up buying it by th seat of your pants.

BUICK

DON NORMARK

orting laundry *for a big family is asier with lightweight plastic askets on sliding shelves*

Laundry sorting? Here's an answer

o make her new utility room more ficient, Jeanne Christ asked Portland esigner Donald Betker for two under-e-counter slide-out shelves, each sized hold two plastic clothes baskets. From e dryer, clean laundry for a family of ven can be sorted into the baskets to distributed around the house.

rip-dry clothes and those that must be ing to prevent wrinkling can go on the nsion metal bar above the counter. hen wet clothes hang there, a shallow lvanized steel tray catches drips. ou'll find such trays at auto supply ores for about $6.) □

Clothes rod *and drip pan handle special drying problems*

GEORGETOWN pendulum strike, battery-powered, 29" high. $149.95

Seth Thomas

Elegance & Excellence

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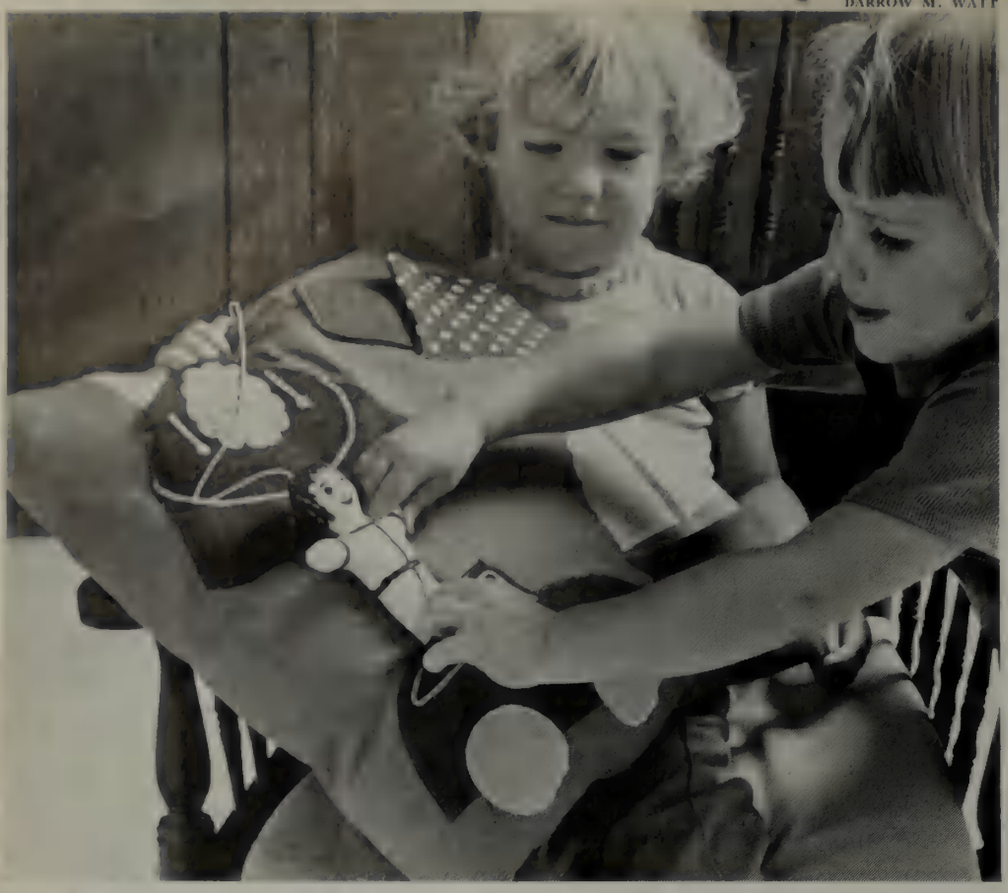
DARROW M. WATT



Toddler can poke *doll-on-a-string into the top of the auto, then pull it out and put it in the boat, or inside the sleeping bag, or at the table*

On this pillow the doll has four places to go

Scraps *of cotton fabrics make up the different shapes; short pieces of trim define them*

In this working pillow, the soft little doll can slip into the pocketlike openings of the auto, boat, table, and sleeping bag. A length of round elastic band keeps pillow and doll connected while they're toted around the house. Toddlers like them; we know one 3-year-old who kept his pillow right beside him day and night.

Materials. You'll need enough fabric and stuffing to make an 18-inch square pillow. For the appliqués, collect small pieces of fabric—allow enough for a double thickness on pockets to ensure sturdiness. Also select a soft, sturdy fabric for the doll, embroidery thread for detailing, and about 16 inches of round elastic to connect doll and pillow. You can purchase trim for the auto window and for the wave under the boat; the place mat is a piece of lace.

Appliqué work. The shapes are simple to draw (for our suggestions, turn to page 111). Either sketch them directly on the wrong side of the fabric or make a paper pattern first, taking care that all the pieces will fit within the borders of the pillow. Cut the cover of the sleeping bag, the tablecloth, the car body, and the boat hull from doubled pieces of fabric. With right sides together, stitch these folded pieces from A to B, following the dashed lines indicated in the sketch; use a ½-inch seam. Turn right side out and press flat.

Cut the single-thickness appliqué pieces (chair back, sleeping bag bottom, car wheels, boat sails). Pin, baste, and zigzag-stitch all pieces (except the auto wheels) to the front of the unfinished pillow. Then attach the double-thickness pieces to the pillow by zigzagging along the raw and seamed edges, leaving an opening from C to D on each pocket for the doll to slip in.

Stitch on the trims. Cut the spoon and fork from white fabric and attach with white glue.

Doll. Cut two 5 by 7-inch pieces of fabric for body (see shape in the sketch on page 111). With right sides together,

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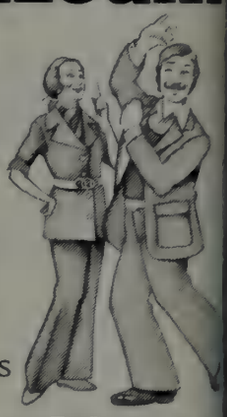

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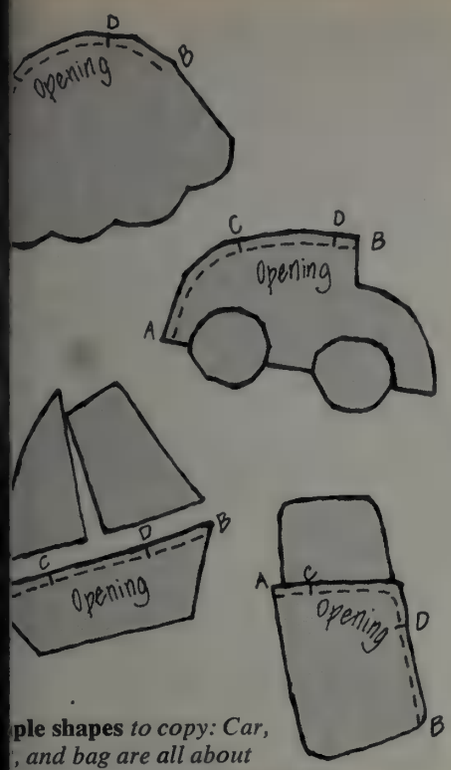
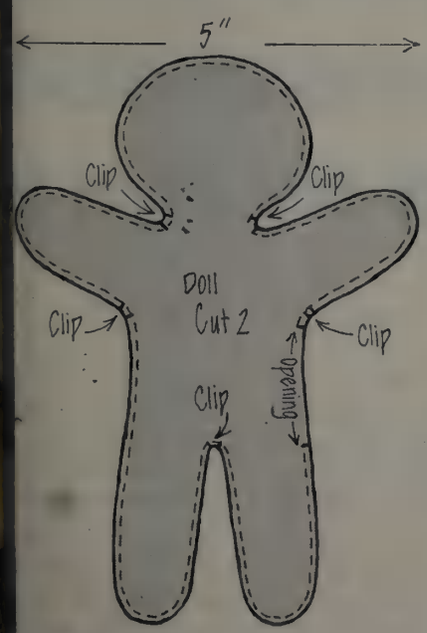


ple shapes *to copy: Car, , and bag are all about hes long, table about 6 inches , flaring to 7½ inches. Dashed lines A to B show seam of double fabric. ning C-D is where doll slips in*

h a ¼-inch seam all around the y; clip seams and turn right side out. f doll firmly, hand-stitch the opening ed, and hand-stitch face and body de- with colored embroidery thread (a n stitch works well).

en appliqué work is finished, baste t sides of the pillow together. Knot end of the elastic and put it in the n along the top. Stitch around pillow a ½-inch seam, leaving an opening stuffing. Turn right side out, stuff, hand-stitch opening closed. Sew ic to doll's head. □



Basic doll *starts this way; you can etail it with features, hair, and clothes uggested by its young owner*

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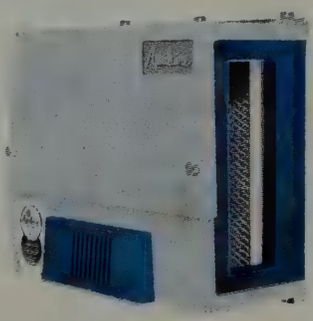

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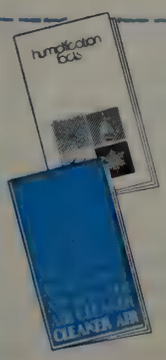

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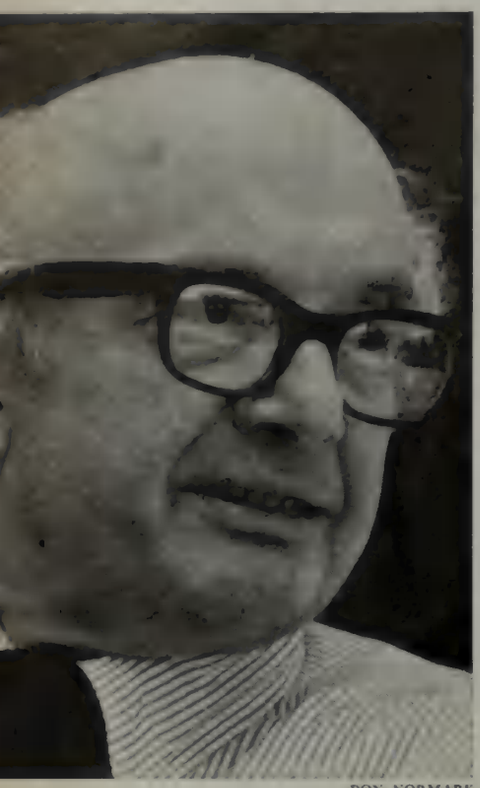
"We must find a thriftier way to use our land"

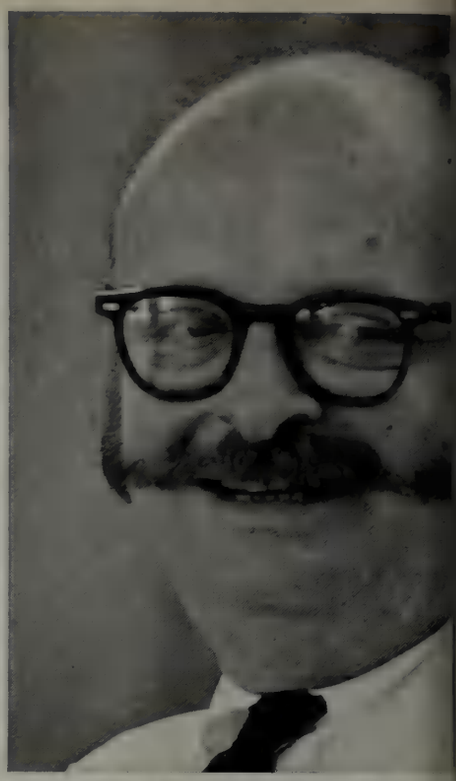
Paul Hayden Kirk: *Honor Awards winner in 1957. Juror in 1959*



DON NORMARK

Susan Bragstad: *Citation winner in 1975*

"Costs and energy will force us to be more logical"



Charles W. Moore: *Honor Awards winner in 1971. Juror in 1969*

"I like to see how the new stuff stacks up"

Hang on! The housing-idea world and th and the energy-wasting world all need If your house is eligible, line up and sign u

This coming June a distinguished jury of architects plus experts from related fields will meet at *Sunset's* Menlo Park headquarters to choose outstanding examples of residential architecture from several hundred entries. The occasion is the 11th A.I.A. - *Sunset Magazine* Western Home Awards program, an event sponsored at 2-year intervals since 1957.

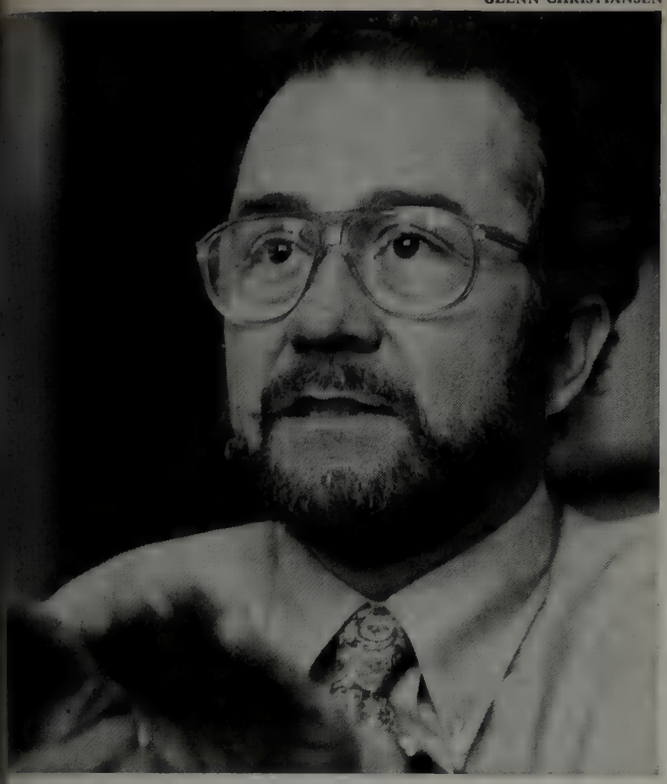
The purpose of the program is to honor and showcase the best architect-designed residences in several categories in 13 states—Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming.

This year's program promises to be one of the most revealing yet, as architects and clients join forces to meet today challenges in designing and building. We anticipate innova tion in such things as energy conservation, land use, way of dealing with the ever-rising costs of labor, land, an materials, ways of working with new energy and enviro mental building codes.

If you own or have designed or have built a house that suc cessfully addresses some of the housing and building problem of the mid-1970s, the program committee hopes you wi seriously consider entering this year.

Any house that was designed by a registered Western architec and completed since January 1, 1973, is eligible for submis

GLENN CHRISTIANSEN



Henrik Bull: *Honor Awards in 1957. Juror in 1965*

"Sunset is quick to sense trends that are more than fashion"

ousing-cost world 977 shaking up. ou are needed

n this year by its architect, owner, or builder.

thin the next month, architects in the West may expect to eive a brochure containing instructions for entering the gram. If you are an architect and do not receive a bro- re by April 1, or a builder, developer, or home owner o would like to receive one, please write to AIA - *Sunset gazine*, Box 2345, Menlo Park, Calif. 94025.

ors will be announced in the May issue of *Sunset*, and the ouncement of award winners will be made starting in ober. In addition, a traveling exhibition of winners will go display in major Western cities during the fall and winter nths of 1977 and throughout 1978. □

American Institute of Architects - Sunset Magazine

Western Home Awards 1957-1977

These are the architects who have served as jurors during the past 20 years of the WHA

Robert Alexander
John Andrews
Harris Armstrong
Edward L. Barnes
Fred Bassetti
Peter Blake
Robin Boyd
A. O. Bumgardner
Gardner Dailey
Donn Emmons
Arthur Charles Erickson
Joseph Esherick
Alexander Girard
Bennie M. Gonzalez
Hugh Hardy
Harwell H. Harris
A. Quincy Jones
Raymond Kappe
Edward Killingsworth
Paul Hayden Kirk
Carl Koch
Alan Liddle
Donlyn Lyndon
Fumihiko Maki
David A. McKinley
Hector Mestre
Charles W. Moore
John M. Morse
Vladimir Ossipoff
Kevin Roche
Paul Rudolph
Victor Steinbrueck
Calvin C. Straub
Hugh Stubbins
Thomas R. Vreeland, Jr.
John Carl Warnecke
Minoru Yamasaki

And these are the designers, landscape architects, photographer, museum curator who have been jurors

John Burchard
Thomas Church
Henry Dreyfuss
Charles Eames
Lawrence Halprin
Dorothy W. Liebes
Cliff May
Eudorah Moore
Robert Royston
Lee Sharfman
Barbara Stauffacher Solomon
Deborah Sussman
Ezra Stoller
Peter Walker
Edward A. Williams

DON NORMARK

Solid shelf *under tall kitchen cupboard makes a convenient step*

Extra-deep *bottom shelf of pantry assists this young cooky hunter*

Paying attention to shelves in the kitchen... especially tops and bottoms

A floor-to-ceiling pantry is a boon in any kitchen, whether you use it to store food staples or china and glassware. But the highest and lowest shelves can be difficult to reach or see into without climbing or squatting.

These two kitchens solve the problem in slightly different ways. At left, architect Otto Poticha made the lowest shelf deeper and stouter than those above it; it's strong enough to step up on to reach the top-shelf items behind the sliding doors. Easy-to-reach drawers under it store cleaning supplies, polish, dustcloths. The owner is Kenar Charkoudian of Eugene, Oregon.

In the second kitchen, designed by architect Fred Repass of Seattle, the lowest shelf has again been made deeper than the others; but here all shelves are concealed by a pair of bifolding doors. The deep shelf stores large items in plain view, and also gives young helpers a boost to staples and treats higher up.

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And you've got three dozen oatmeal cookies that'll put a Quaker smile on a lot of faces.

Fixed Venetian blinds *shade artwork and rug in this skylit hallway. You cut perforated ends off slats and drop them into grooved 1 by 4's (above)*

NORMAN A. PLA

If your skylight is sometimes too much . . . maybe it needs shade

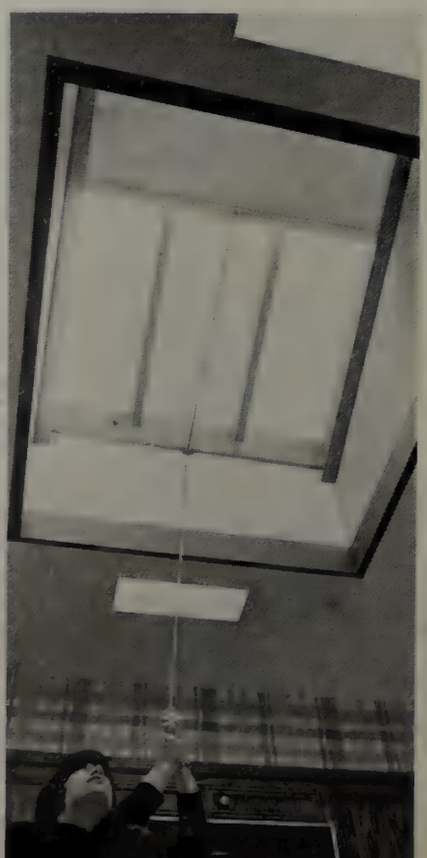
At certain times of the day or year, a skylight may let in too much light. Here are some ways to block out the sun.

You can adapt the two skylight shades shown at left below or the Venetian blinds above to fit an existing skylight. A ceiling pocket to receive a sliding wooden panel (far right, below), should be built in during original construction, whether you plan to install your skylight then or some time in the future. □

Double-lapped *canvas shades are restapled to standard rollers. Pulleys attached to corners of shade guide cord to eye screws anchored in the ceiling*

GLENN CHRISTIANSEN

Standard shade *slides down 1 by 2-inch track. Tension fastener keeps it from pulling up. Designer: Obie Bowman, Sea Ranch, California*



Hidden pocket *in ceiling receives ¼-inch plywood sheet reinforced with ½ by 2-inch struts. Owner pulls plywood with a forked 1 by 2*

PETER O. WHITELE

Scrambled Eggs Secret

Clue: Those tangy green chiles ou see do more than look good.

They turn plain ole scrambled eggs into rtega Huevos Con Chiles. This delicious lexican breakfast has long been a favorite ith Westerners.

It is a delectable combination of zesty, avorful Ortega® Green Chiles and scrambled ggs. Together they make a breakfast worth etting up for. You can add other tasty morsels o, like mushrooms, tomatoes, even bacon bits. ut be sure the chiles are Ortega!

ORTEGA HUEVOS CON CHILES

6 eggs
3 tablespoons milk
1/4 teaspoon salt
1/8 teaspoon pepper
1 can (4 oz.) Ortega Diced Green Chiles
2 tablespoons butter (or margarine)
1/4 cup chopped onion

In bowl, beat together eggs, milk, salt and pepper. Stir in diced green chiles. Set aside. In skillet, melt butter over medium heat and cook onion until soft. Add egg-chile mixture and cook, stirring occasionally until done as desired. Serves 3-6.

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GLENN CHRISTIANSEN

of wraps around *heavily reinforced concrete tower. Fifty roof and floor trusses port the living space, eliminating all exterior bearing walls*

Unusual semicircle house hangs on its central tower

e tower house" is what owners Jim Susan Ahrens call their home in santon, California. Actually the er is only a small part of the house, it's vital—most of the living space gs in a half-circle off one side of it.

Jose architect Lory Ice designed this sual structure to take advantage of wooded hillside site and the view, e leaving a level area for parking. ning and engineering took about t months, construction about a year. most time-consuming part was dig- forming, reinforcing, and pouring oncrete for the 75,000-pound tower. heavily reinforced hollow structure as a hanging post for 50 roof and trusses. It carries the weight of the e house, thus eliminating the need veight-bearing walls anywhere else.

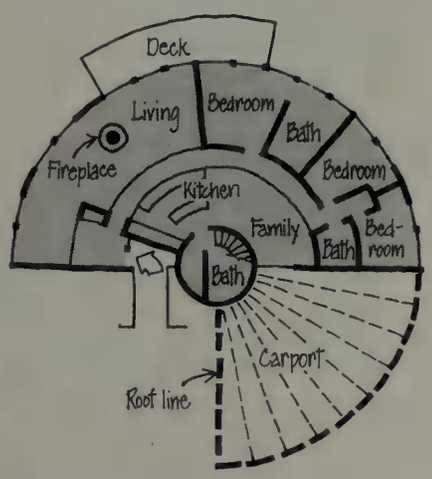
ddition to four 2 by 30-foot poured cal piers below the tower, a 40-foot- buried concrete wall that parallels driveway helps to anchor the house e hillside.

re any walls went up, the floor and were hung. Prefabricated trusses hoisted from a delivery truck by e and positioned around the tower. near the edge of the deck, the es are 30 feet off the ground.)

e the trusses were bolted in place, several rings of spacer rods were strung between them; you can see them in the picture at right.

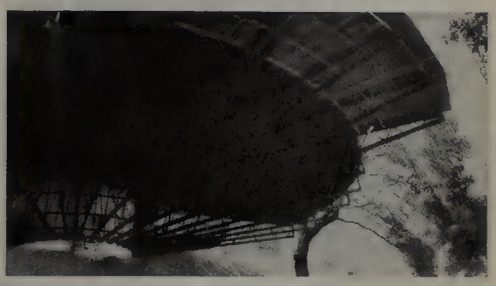
Then the flooring was installed (it steps down three levels) and the roof (it wraps around 270° to cover the parking area). Both the floor and ceiling are insulated to minimize heat loss.

The last phase was the addition of non-bearing walls and windows which wrap the downhill side of the house. □



Half-round house *is basically one level. Tower has bath and laundry room on main level, utility room below*

Raised hardwood walkway *curves through house. Roof truss system is exposed; bedrooms have dropped ceilings*



The view from below: *wood and metal tube floor trusses radiate 32 to 40 feet beyond the tower core*

Sunset's Kitchen Cabinet®

For February's holidays—Valentine's Day and George Washington's birthday—surprise the family with a festive cherry dessert. Our spicy cherry squares are good warm or cooled, topped with ice cream.

If you're planning a dinner party, y might serve the soy-basted pork ro or the delicately flavored fish ra kins. The make-ahead salad w mushrooms and oranges would well with either. For new breakf

Soy-garlic baste gives pork roast rich brown color and spicy Oriental flavor

Roast Pork with Soy-Garlic Baste

Baste the pork with soy-garlic sauce; pass remaining sauce at the table.

- 3½ to 4 pounds lean boneless leg or loin pork roast, rolled and tied
- Pepper
- 2 tablespoons salad oil
- 2 green onions, thinly sliced
- 2 cloves garlic, minced or pressed
- ¼ cup soy sauce
- Water
- 4 teaspoons sugar
- 1 tablespoon dry Sherry (optional)
- 1½ teaspoons minced fresh ginger
- 1 teaspoon vinegar

Sprinkle meat lightly with pepper; place meat, with fat side up, on a rack in a roasting pan. Roast, uncovered, in a 325° oven until a meat thermometer inserted in the thick portion registers 170° (about 2 hou

Meanwhile, in a small saucepan h the oil over high heat. When hot, s in onion and garlic; remove from he Add soy, ½ cup water, sugar, Sher ginger, and vinegar; stir until blend During the last 30 minutes of roa ing, brush pork with soy mixture s eral times. Before serving, remo roast and keep warm while you br remaining sauce and pan drippings a boil. Add water to taste, if sal Skim and discard fat; pass to spo on servings. Makes 6 to 8 servings *Y. W., Los Angeles.*

Oats and whole wheat flour are the base for this crunchy granola cereal

Sesame Honey Granola

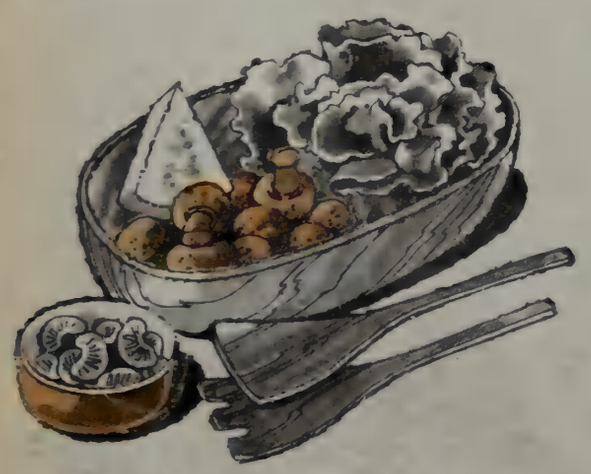
Honey lightly sweetens this sesame seed - laced version of granola.

- 5 cups quick-cooking or regular rolled oats
- 1 cup whole wheat or soy flour
- 1 cup nonfat dry milk
- 1 cup shredded coconut
- 1 cup sunflower seeds
- 1 cup wheat germ
- 1 cup chopped walnuts
- 1 cup sesame seeds
- 1 cup *each* salad or soya oil and honey
- 2 teaspoons ground cinnamon

In a large bowl, mix together the oats, flour, dry milk, coconut, sunflower seeds, wheat germ, walnuts, and sesame seeds. In a small bowl, stir together the oil, honey, and cin mon; pour over oat mixture and s until evenly moistened.

Spread mixture out on 2 large 10 15-inch rimmed baking pans. Bal uncovered, in a 250° oven, stirri every 15 minutes, until granola caramel colored, about 1 to 1 hours. Let cool thoroughly, then st in an airtight container. Makes ab 3½ quarts.—*E. P., Tacoma.*

Serve as breakfast cereal with m and a sprinkling of diced pitted dat prunes, or dried apricots, or slic bananas. Use also as a topping for cream, baked fruit, or pudding.



Mandarin oranges and sliced mushrooms add a refreshing spark to green salad

Mushroom-Orange Salad

You can make this salad ahead—chill greens and dressing separately, then mix together just before serving.

- ¼ cup slivered almonds
- 4 slices bacon
- 1 large head butter lettuce
- 1 can (11 oz.) mandarin oranges, drained
- 6 tablespoons salad oil
- 3 tablespoons white wine vinegar
- 3 tablespoons crumbled blue cheese
- ¼ teaspoon *each* salt and dry mustard
- ⅛ teaspoon pepper
- ½ pound mushrooms, sliced

In a large frying pan, cook nuts, stirring, over medium-low heat until lightly browned, about 5 minutes. Remove from pan and set aside.

Using the same pan, cook the bac over medium heat until crisp; dra and crumble.

Wash lettuce leaves; dry and tear ir bite-sized pieces. In a large sal bowl, combine lettuce and orang Cover and refrigerate if made ahea

In a jar or small bowl, combine t oil, vinegar, cheese, salt, mustard, a pepper; shake or stir to blend. Co and chill.

Before serving, pour dressing over l tuce mixture; add the mushroon bacon, and nuts, and toss to m Makes about 4 servings.—*A. T., S Lorenzo, Calif.*

ıs, try the granola or the vegetable cakes topped with eggs.

share your original recipes, send n to *Sunset Magazine*, Menlo k, Calif. 94025. We pay $10 for h recipe published.

February surprises... soy-garlic pork roast, individual fish ramekins

rot-Potato Pancakes

se colorful vegetable pancakes e a delicious accompaniment to ts; or top them with fried or ched eggs for breakfast.

- 3 medium-sized baking potatoes, peeled
- 3 eggs, lightly beaten
- ¼ cup milk
- ⅓ cup all-purpose flour, unsifted
- ½ teaspoons salt
- ¼ teaspoon pepper
- 3 large carrots, peeled (if desired) and shredded
- ½ cup minced onion
- ⅓ cup minced parsley
- About ½ cup sour cream

ed potatoes; place in water to er. Stir together the eggs, milk, flour, salt, and pepper. Drain potatoes and squeeze out any excess liquid. Add potatoes, carrots, onion, and parsley to egg mixture; stir together gently with a spoon.

Preheat an electric griddle to 375°, or heat another griddle or frying pan over medium heat on your range. Grease lightly, then drop large spoonfuls (about ⅓ cup) of the mixture apart on griddle. Slightly flatten each to a 4-inch circle. Cook until bottom is well browned; turn and brown other side, about 5 minutes total. Pass sour cream. Makes 14 pancakes.—*E. B., Medford, Ore.*

Carrots and parsley add bright color and flavor to these potato pancakes

n and Celery Root Ramekins

individual ramekins, each about up size, for this company entrée.

- 2 tablespoons lemon juice
- About 1 cup regular-strength chicken broth or dry white wine
- 1 small onion, chopped
- 1 celery root (¾ lb.), peeled and shredded
- 4 lingcod or sea bass fillets (6 to 8 oz. *each* and 1 inch thick)
- 2 tablespoons *each* butter and all-purpose flour
- ¼ cup whipping cream
- ¾ teaspoon thyme leaves
- ½ pound small cooked shrimp
- Salt and white pepper

the lemon juice, 1 cup broth, n, and celery root. Divide mixture evenly among 4 ramekins. Top each with a fish fillet. Cover each tightly with foil and bake in a 400° oven until fish flakes in thickest part, 20 to 25 minutes. Holding fish in place with a wide spatula, drain and reserve juices; boil to reduce or add more broth to make 1 cup. Keep fish warm.

In a saucepan, melt butter over low heat, stir in flour, and cook until bubbly. Remove from heat, stir in fish juices, cream, and thyme. Cook, stirring, until it boils and thickens. Stir in shrimp and add salt and pepper to taste. Spoon sauce over fish. Makes 4 servings.—*J. F., Laguna Beach, Calif.*

Oven-poach fish and celery root in ramekins, then top with shrimp sauce

y Cherry Squares

rry sauce marbles through the batter as it bakes.

- Cherry sauce (recipe follows)
- ½ cups all-purpose flour, unsifted
- ½ cup sugar
- 2 teaspoons baking powder
- ¼ teaspoon salt
- 1 egg
- ½ cup milk
- 3 tablespoons melted butter or margarine

e cherry sauce; let it cool while make the cake.

together flour, sugar, baking der, and salt. Beat together the milk, and butter; add to flour ure, and stir together just until blended. Pour batter into a well-greased 9-inch square pan. Spoon cherry sauce evenly over top. Bake in a 375° oven until a wooden pick inserted in cake portion comes out clean, about 30 minutes. Makes 9 servings.—*H. N., San Francisco.*

Cherry sauce. Drain 1 can (1 lb.) pitted dark sweet cherries; reserve ¾ cup syrup. In a pan, mix the syrup, 4 teaspoons cornstarch, ¼ cup firmly packed brown sugar, ½ teaspoon *each* ground cinnamon and allspice. Cook over medium heat, stirring, to thicken. Stir in 2 tablespoons butter, 1 tablespoon lemon juice, cherries. □

Serve cherry squares warm or cooled, topped with ice cream or whipped cream

Cooking for two with a whole leg of lamb

With help from your butcher and then from your freezer... five splendid and different meals plus leftovers

When you cook for just two, a whole leg of lamb—although certainly appealing—may seem a bit unwieldy. But, with the help of your meatman, the leg can be divided into easily handled portions that you can use for five different, mouth-watering entrées.

After selecting a full-cut leg of lamb, ask the meat cutter to first saw off four slices, each about 1 inch thick, from the large end (sirloin section). This gives you two hip blocks for a quickly assembled cassoulet, and two leg steaks to pan-broil.

Then have him bone the remainder of the leg. At home, you can cut this meat as shown below (in this picture, the bone is still in place). Roll and tie the center section for an oven roast to serve two with plenty of cooked meat left ov Use it for curried lamb another nig there may still be enough left for la sandwiches. Use the small or shank e and trimmings for a lemon-accen lamb stew.

Generally, meat markets will do the c ting and boning without charge wh you wait; some may require a day two of notice. Once you have the m home, cook the dishes in any order y choose; wrap and freeze the remain cuts until needed.

One whole leg of lamb, *cut and boned, becomes five meals for two. From left to right: hip blocks, leg steaks, and boned meat for oven roast (two meals) and stew*

Lamb Chop Cassoulet

Cut 2 slices bacon into 1-inch piec cook in a small frying pan over medi heat until lightly browned. Pour off but about 2 tablespoons of the drippi and add 1 medium-sized onion, slic and 1 clove garlic, minced or press cook until onion is limp.

In a shallow 1½-quart baking d combine 1 can (15 oz.) *cannellini* (w kidney beans) and their liquid, the ba mixture, 1 teaspoon beef stock bas tablespoon tomato-based chile sauce cup chopped parsley, and 1 Polish sage cut in ¼-inch slices. On top, p two hip-block lamb chops (about ¾ total). Cover and bake in a 375° c for 30 minutes; remove cover and b 10 to 15 minutes longer or until ch

DARROW M. WATT

This easy-to-carve *boneless leg of lamb for two doesn't waste any meat; what's left will make curry for another night*

wn lightly. Remove from oven and n fat from juices. Reset oven to 400°.

anwhile, melt 1 tablespoon butter or rgarine in a small frying pan. Add 1 e firm white bread, crumbled, and until well coated; spoon over cas- ole. Continue to bake in a 400° oven 10 minutes or until crumbs are crisp brown. Makes 2 servings.

nb Steaks with Parsley Butter

t together 2 tablespoons soft butter margarine, 1½ teaspoons minced sley, and ¼ teaspoon *each* grated on peel and garlic powder; set aside.

large frying pan over medium-high , melt 1 tablespoon *each* butter or rgarine and salad oil; add 2 lamb leg ks (about 1 lb. total) and cook 5 to 6 utes on each side for medium rare. son with salt and pepper and spoon of the parsley butter onto each k. Garnish with watercress sprigs, esired. Serves 2.

led Herbed Lamb Roast

2 cloves garlic, minced or pressed; ablespoon dry Vermouth; 2 table- ons Dijon mustard; and 1 teaspoon an herb seasoning. Spread over all s of the boneless center-cut leg of b (2½ to 3 lbs.). Roll up compactly; ecurely in several places. Place roast, fat side up, on a rack in a roasting pan. Insert a meat thermometer in the thickest portion.

Roast, uncovered, in a 325° oven until thermometer registers 150° for medium rare, about 30 minutes per pound. Remove to a serving platter.

Add ¾ cup water to pan drippings; scrape up brown bits from pan bottom and heat. Skim fat and pass juices at the table to spoon over sliced lamb. Makes 4 to 6 servings.

Planned-over Lamb Curry

Melt 2 tablespoons butter or margarine in a large frying pan over medium heat; add 1 medium-sized onion, sliced, and cook until limp. Stir in 1 clove garlic, minced or pressed; 1 large unpeeled tart apple, cored and diced; 2 teaspoons curry powder; ¼ teaspoon ground ginger; ¼ cup raisins; 1 chicken bouillon cube; 1 cup water; and 2 cups diced cooked lamb. Bring to a boil, reduce heat, cover, and simmer 10 minutes.

Blend 1 teaspoon cornstarch with 1 teaspoon water; stir into curry mixture and cook, stirring, until thickened. Remove from heat and stir in 2 teaspoons lemon juice. Serve over hot cooked rice. In separate bowls pass 3 or 4 condiments such as salted peanuts, chutney, unflavored yogurt, toasted shredded coconut, chopped hard-cooked egg, or chopped cucumber. Serves 2.

Braised Lamb in Lemon Sauce

Trim excess fat from about 1 pound boneless lamb (the shank end and trimmings); cut meat into 1-inch pieces. Heat 1 tablespoon salad oil in a 3-quart pan over medium heat; add meat and brown well on all sides.

Stir in 1 medium-sized onion, sliced, and 1 clove garlic, minced or pressed; cook until onion is limp. Add ½ teaspoon oregano leaves, a dash of pepper, 1 beef bouillon cube, and ¾ cup water. Bring to boiling, reduce heat, cover, and simmer 50 minutes or until meat is tender when pierced. Add 1 *each* medium-sized zucchini and crookneck squash, thinly sliced. Cover; simmer 6 to 8 minutes or until vegetables are tender.

With a slotted spoon, transfer meat and vegetables to a warm serving dish.

Beat 1 egg and ½ teaspoon cornstarch until blended; stir in 1 tablespoon lemon juice. Gradually stir hot cooking liquid into egg mixture. Return to pan; cook over low heat, stirring, until sauce thickens. Season with salt and pepper to taste, then pour over meat and vegetables. Garnish with 1 thinly sliced green onion. Makes 2 servings. □

Inside the paper, fish smothered with shrimp, crab, shallot sauce

Tucked inside a packet of heart-shaped parchment, fish fillets smothered with shrimp, crab, and a shallot-flavored sauce make an elegant company entrée. Our version is adapted from a famous New Orleans classic, *pompano en papillote*, and uses Western fish such as lingcod or rockfish instead of the traditional Gulf pompano.

You'll find the parchment you need in kitchenware shops or near the waxed paper in supermarkets.

Fish in Paper

- Poaching liquid (recipe follows)
- 6 boneless lingcod or rockfish fillets (about 6 to 8 oz. *each*)
- Water
- Dry white wine
- About ½ cup (¼ lb.) butter or margarine
- ½ pound mushrooms, sliced
- ⅓ cup finely chopped shallots
- ⅓ cup all-purpose flour
- ¼ cup whipping cream
- 6 pieces parchment paper (*each* about 15 by 15 inches)
- ¼ pound *each* small cooked shrimp and shredded crabmeat

Pour poaching liquid into a wide frying pan and bring to simmering. Add fish fillets in a single, uncrowded layer (if necessary, cook a few at a time). Liquid should barely cover fish; add equal parts water and wine to pan if needed. Simmer, covered, until fish feels firm and is almost done, about 5 to 6 minutes for ¾-inch-thick fillets. With wide spatulas, carefully lift fish from poaching liquid; set aside. Boil poaching liquid, uncovered, until reduced to 2½ cups; set aside in measuring cup and rinse pan.

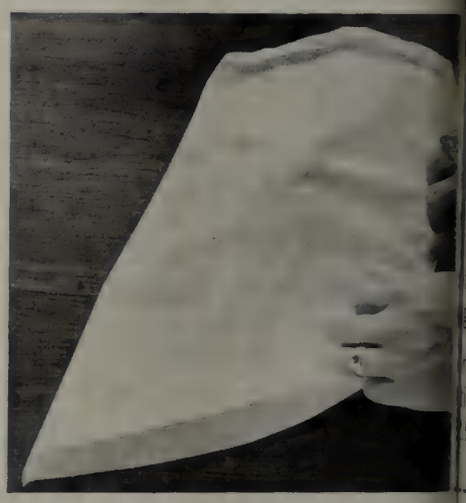
In the frying pan, melt 2 tablespoons butter over medium heat. Add the mushrooms and cook, stirring frequently, until lightly browned. With a slotted spoon, remove mushrooms from pan and set aside. Reduce heat to low and add 4 more tablespoons butter to pan. Add shallots and cook, stirring, until soft. Add flour and stir until bubbly; do not brown. Remove from heat and gradually stir in the reserved poaching liquid. Cook, stirring, until thickened. Stir in cream and mushrooms. Let cool.

Fold each piece of parchment paper in half and cut each into a heart shape about 11 inches long and 14 inches wide.

Pull back *parchment paper to reveal moist and savory fish entrée. Accompany with broccoli spears, hot rolls or pilaf, and salad*

DARROW M. WATT

Align *poached fish fillet next to center crease of paper heart. Top with seafood, sauce*



Roll up *edges of heart two or three times; crimp in several places*

Melt remaining 2 tablespoons butter. To assemble entrée, open each paper heart and lightly brush with some of the butter. Place a fish fillet lengthwise alongside the center crease of each heart. Distribute shrimp and crab equally over the fillets, then top each with sauce.

Fold other half of heart over fish. Starting at the top, roll and crimp edges together; twist point of heart to seal. Place on cooky sheets. Brush tops of hearts lightly with the rest of the melted butter.

Cool and chill if made ahead. Bake, covered, in a 450° oven until pa lightly browns, 7 to 10 minutes. If chil bake in a 400° oven about 20 minutes To serve, cut a cross in the top each packet; pull back paper. Serves 6

Poaching liquid. Combine 1 quart wa 1 large onion, sliced; 6 whole black p pers; 2 whole allspice; 1 bay leaf; 1 spoon salt; and ½ cup dry white w (optional). Cover and simmer 20 minu Strain; discard onion and spices.

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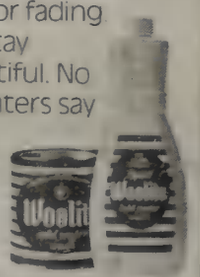

More curries . . . lamb, cheese with peas, fish, shrimp with pork

Our sampling of curries from India, Nepal, and Southeast Asia, beginning on page 78, compares four different recipes, all made with chicken. The four recipes here are further examples of the wide variety of curry dishes you can make: mild and spicy lamb, spicy homemade cheese with peas, hot-sour fish, and lightly spiced shrimp and pork curry.

Pakistani Lamb Curry *(Roghan Josh)*

- 4 pounds boneless lamb stew meat, cut in 1-inch cubes
- 1½ tablespoons turmeric
- ½ cup salad oil
- 4 large onions, chopped
- 3 cloves garlic, minced or pressed
- 2 tablespoons ground cumin
- 1 teaspoon ground coriander
- 1½ teaspoons dill seed
- ¼ to ½ teaspoon cayenne
- ¼ teaspoon *each* ground ginger, mace, and nutmeg
- ¾ cup water
- 6 whole cardamom seeds, crushed
- 6 bay leaves
- 6 whole cloves
- 1 stick cinnamon, about 2 inches long
- 1 can (8 oz.) tomato sauce
- About 2 teaspoons salt

Mix lamb with turmeric. In a heavy 5-quart or larger Dutch oven, heat salad oil over medium heat. Add onion and garlic; cook, stirring frequently, until onions are lightly browned, about 15 minutes. Add the cumin, coriander, dill seed, cayenne, ginger, mace, and nutmeg. Cook over low heat, stirring frequently, for 10 minutes.

Meanwhile, in a small pan combine the water, cardamom, bay leaves, cloves, and cinnamon. Bring to a boil, cover, and simmer 10 minutes. Strain and discard spices; add spicy liquid and tomato sauce to onion mixture. Add meat to pan and stir to coat. Simmer, covered, stirring occasionally, until meat is very tender when pierced, about 1½ to 2 hours. Skim off and discard fat. Add salt to taste. Cool, cover, and chill if made ahead. To reheat, cover and simmer, stirring occasionally, until hot. Makes 8 to 10 servings.—*A. R., San Francisco.*

Indian Curried Cheese and Peas *(Mattar Pannir)*

In a 3-quart or larger pan, bring 2 quarts milk to a boil over medium heat, stirring frequently. When milk begins to boil, add ½ cup unflavored yogurt. Cook, stirring, just until curds solidify and separate from liquid whey.

Line a colander with a clean cloth such as a dish towel, and place over a bowl. Pour curds and whey into colander ar let drain thoroughly; set aside the whe When cool, gather cloth tightly arou curds and wring out excess whey.

Tightly wrap cloth around curd to mal a flat rectangle ¾ inch thick. Place a fl heavy weight such as a heavy pot, boar or brick on top. Let the curd rest room temperature 1 hour or until fir and compact. Unwrap and cut in ¾-in cubes. Reserve 1¾ cups of the whe save the rest for another use or discard

Pour enough salad oil into a heavy quart or larger pan or wide frying p to reach a depth of 1 inch. Heat oil 350°. Cook a few cheese cubes at a tin turning frequently, until browned on sides, about 1 to 2 minutes. Remove a drain on paper towels. Cool, cover, a chill if made ahead.

Pour off all except ¼ cup of oil. Ad tablespoons finely chopped fresh ging 1 to 2 teaspoons minced fresh or cann jalapeño chile (remove seeds for less h ness), and 1 large onion, minced.

Cook, stirring, over medium heat u onions are limp. Add 3 tablespo canned tomato paste, 1 teaspoon t meric, and ¼ to ½ teaspoon cayen Cook over low heat, stirring occasi ally, until onions are very soft, about 8 10 minutes. Add 1½ teaspoons salt tablespoons unflavored yogurt, and reserved 1¾ cups whey. Cool, co and chill if made ahead.

Bring sauce to simmering and add che cubes. Simmer, covered, for 5 minu Add 2 packages (10 oz. *each*) fro peas, thawed. Simmer, uncovered, s ring occasionally, until peas are ten 10 to 15 minutes. Pour into serving di Sprinkle with 1½ tablespoons *gar masala,* if desired (see page 81 for r ipe). Serves 4.—*R. K., Los Angeles.*

Indonesian Fish Curry *(Gulai Ikan)*

Remove and discard hard shells fro tamarind pods, each about 4 inches lo Rinse and break into pieces; soak in cup hot water until soft, about 20 m utes. Strip pulp off seeds into water; card seeds and hard fibrous mate reserve pulpy liquid. (Or omit tamar and water and use ¼ cup lemon juice

Meanwhile, combine in a blender ½ water, 1 medium-sized onion cut chunks, and 3 to 5 small dried hot chi Whirl until smooth. Pour into a 12-i frying pan. Add another 1 cup wate

spoons crushed lemon grass (put in a ball) or 1 stalk (about 6 inches long), teaspoon turmeric, and 1¼ teaspoons . Cover; simmer 15 minutes. Add arind liquid or lemon juice. Cover; mer 5 minutes longer.

p 1 cleaned whole rockfish, head and removed (2 to 3 lbs.) in cheesecloth, ling edges together on top of fish. (Or 2 lbs. fish fillets about 1 inch thick l cut in 3 by 5-inch pieces.)

1½ cups coconut milk into onion ture. Place fish in sauce. Cover tly and simmer gently until fish flakes thickest part, about 20 minutes for ole fish, 10 minutes for fillets. Trans- fish to rimmed dish; remove chees- th. Simmer sauce, uncovered, 5 min- s, stirring occasionally. Discard lemon ss. Pour sauce over the fish and gar- n with fresh mint leaves, if desired. ve with rice. Serves 4.—*F. L., Red- od City, Calif.*

rmese Pork, Shrimp, l Bamboo Shoot Curry

move and discard hard shells from 4 arind pods, each about 4 inches long. se and break into pieces; soak in 3 lespoons hot water until soft, about minutes. Strip pulp off seeds into er; discard seeds and hard fibrous terial; reserve pulpy liquid. (Or omit arind and water and use 2 table- ons lemon juice.)

t the meat from 1 pork shoulder steak out 1 lb.) away from bone, then cut ½-inch-thick strips about 2 inches g. Finely chop 2 large onions, 6 cloves lic, and enough fresh ginger to make tablespoon. Peel and chop 2 large atoes. Peel and devein ¾ pound dium-sized shrimp.

2 tablespoons salad oil in a heavy 4-quart pan or wide frying pan over h heat. Add pork and cook, stirring il browned, about 4 minutes. With a ted spoon remove meat from pan; set de. Reduce heat to medium.

d another 2 tablespoons oil, the onion, lic, ginger, and 1 teaspoon shrimp te or anchovy paste. Mash paste with poon. Cook, stirring, until onion is y soft and begins to brown, about 5 utes. Stir in 2 teaspoons chile powder, easpoon turmeric, and the tomatoes; k, stirring, until tomatoes are soft.

in pork, 1 can (about 8 oz.) sliced mboo shoots (including liquid), and 1 water. Cover and simmer until pork ender, 45 minutes to 1 hour. Cool, er, and chill if made ahead.

reheat, simmer, covered, until hot. in shrimp, cover, and simmer until imp are pink and firm, about 10 min- s longer. Add tamarind juice, 2 tea- ons chopped fresh coriander leaves or ed cilantro leaves. Salt to taste. Turn o serving dish; garnish with fresh cori- der leaves. Makes 4 to 6 servings. □

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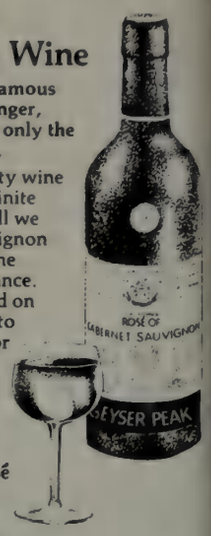

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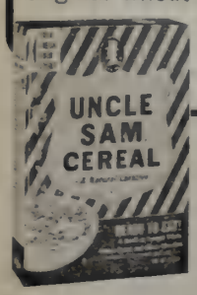

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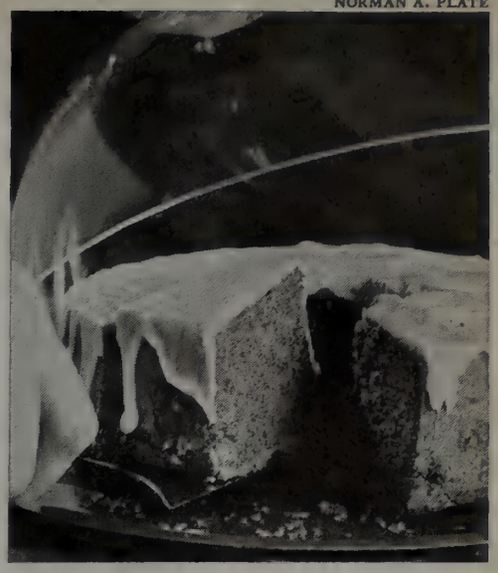

Spicy *glazed cake keeps fresh for days*

Tweed cake . . . the tweed is chocolate

The surprising ingredient that keeps this cake moist is mashed potatoes.

Chocolate Tweed Cake

- Instant mashed potatoes (amount for 2 servings)
- ¾ cup (⅜ lb.) soft butter or margarine
- 2¼ cups sugar
- 3 eggs
- 1¾ cups regular all-purpose flour (unsifted)
- 2 teaspoons baking powder
- 1 teaspoon salt
- ½ teaspoon *each* cream of tartar, ground cloves, and ground nutmeg
- 1½ teaspoons ground cinnamon
- ½ cup milk
- 2 ounces unsweetened chocolate, shredded
- Glaze (recipe follows)

Prepare mashed potatoes using the liquid called for on the package (omit butter and salt); let cool. Beat the butter and sugar together until creamy. Beat in the potatoes, then beat in the eggs one at a time until fluffy. Sift flour with baking powder, salt, cream of tartar, cloves, nutmeg, and cinnamon. Alternately add the flour mixture and milk to the potato mixture, blending after each addition. Stir in the chocolate. Spoon batter into a greased and flour-dusted 10-inch tube pan with removable bottom or a 9 by 13-inch baking pan.

Bake in a 350° oven for 1 hour and 15 minutes (50 minutes for oblong pan), or until a wooden pick inserted in the center comes out clean. Cool for 10 minutes, then loosen the tube cake from pan sides with a knife, lift out, and loosen cake bottom; turn out onto a rack and drizzle with glaze. Or spread glaze over warm loaf cake in the pan. Cool. Makes 12 servings.—*P. H., Portland.*

Glaze. Beat 2 cups unsifted powdered sugar with 3 tablespoons water. □

DARROW M. WATT
Simple herb *and wine broth brings out crab's flavor*

The light touch with crab ...a broth that's boldly toned with vermouth, garlic

Crab's delicate flavor needs only a simple presentation to be at its best. Here it is enhanced by a light but well-seasoned broth with overtones of dry vermouth and garlic.

It's easy to make—just heat cracked crab in the fragrant broth, then ladle into serving bowls. Guests shell the crab and dip it back into the buttery liquid to soak up even more flavor.

Make the broth ahead if you wish, then reheat it when you're ready to add the crab. You can thicken the broth slightly if you prefer a sauce that clings lightly to the crab, rather than the thinner version.

Also offer hot, crusty French bread for dunking.

Followed by cheese and fruit, this crab dish is the basis of a memorable meal. Pass hot, moist towels so guests can freshen their hands between the crab and dessert courses.

Crab Vermouth

In a 12 to 14-inch frying pan (or 4 or 5-qt. kettle), melt ½ cup (¼ lb.) butter or margarine. If you want slightly thickened broth, remove from heat and blend in 2 tablespoons cornstarch (leave out cornstarch for a thin broth).

Gradually stir in 1 cup dry vermouth and 1 can (about 14 oz.) regular-strength chicken broth. Add 2 tablespoons *each* chopped parsley and minced or pressed garlic, 1 tablespoon *each* soy sauce and lemon juice, and 1 teaspoon sugar. Bring to a boil, reduce heat, cover, and simmer for 10 minutes. At this point you can cover and chill broth up to 24 hours.

To the hot or reheated broth, add 2 medium-sized (about 2 lbs. *each*) cooked crabs (cleaned and cracked); cover and simmer until crab is heated through, 10 to 15 minutes. Pour an additional ¼ cup dry vermouth over crab.

Ladle the broth and crab into large individual shallow bowls. Makes 4 servings.
—*L. G., Atherton, Calif.*

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DARROW M. WATT

Serve *anise bread warm or toasted to emphasize its spicy fragrance*

Easy stuff.

Now a great Italian recipe made easy. Nobody likes to stuff limp, cooked macaroni. That's why Golden Grain created Stuff-A-Roni. You fill it with good things before it's cooked—when it's firm, solid and easy to stuff. And, with marvelous Golden Grain Marinara sauce, it's fun to fix "Stuff-A-Roni Florentine." Try it. You'll be glad you did it our way.

Stuff-a-Roni Florentine

1 pkg. Golden Grain Stuff-A-Roni.
2 (15 oz.) cans Golden Grain Marinara Sauce.

Filling:

½ lb. ground beef
1 med. onion, minced
2 Tbsp. oil
1 cup soft bread crumbs
10 oz. pkg. spinach, thawed
2 Tbsp. grated Parmesan
3 eggs
1½ tsp. salt
¼ tsp. pepper

Cover bottom of oblong 2 qt. baking dish with 1 cup sauce. Brown beef and onion in oil; add remaining ingredients. Fill uncooked Stuff-A-Roni; arrange in single layer in baking dish. Pour remaining sauce with ½ cup water over top. Cover with foil; bake at 375°F., 1 hour.

THE GOLDEN GRAIN FAMILY OF FINE FOODS

Anise bread goes back generations

For festive occasions in northeastern New Mexico, it's a tradition to make a sweet yeast bread with the flavor of anise. Our recipe has been handed down for generations in the family of Beatrice Lopez of Las Vegas, New Mexico. She remembers eating the bread since the days when her great-grandmother baked it outdoors in an adobe beehive oven.

Serve it for a brunch, or with coffee or tea any time guests arrive.

Anise Bread
(Pan de Anís)

1 package active dry yeast
½ cup warm water (about 110°)
½ cup warm milk
2 tablespoons granulated sugar
1½ tablespoons anise seed
½ cup butter or margarine, melted
2 eggs
½ teaspoon salt
About 4 to 4½ cups all-purpose flour, unsifted
⅔ cup packed brown sugar
½ teaspoon ground cinnamon
Sugar glaze (directions follow)

In a large electric-mixer bowl, soften yeast in the warm water. Add the milk, granulated sugar, anise seed, 3 tablespoons of the butter, eggs, salt, and 1½ cups of the flour. Beat at medium speed until smooth, about 5 minutes.

Using a heavy-duty mixer or a wooden spoon, gradually beat in the remaining 2½ to 3 cups flour to form a soft elastic dough.

Turn out onto a lightly floured board

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Thursday's chicken is Thursday's chicken. But a blend of two rices and twenty-three different herbs and seasonings is not a potato.

What a success.

DARROW M. WATT

Roll *rectangle of dough, sprinkled with cinnamon and sugar, into a thick rope*

Slash *top of dough circle to expose sweet filling beneath*

and knead until a smooth, nonsticky dough forms, about 5 minutes. Place dough in a greased bowl and turn over to grease top. Cover; let rise in a warm place until doubled, about 1½ hours.

Punch down dough; on a lightly floured board roll out into a 12 by 22-inch rectangle. Brush remaining 5 tablespoons butter over dough to within ½ inch of edges. Combine brown sugar and cinnamon and sprinkle evenly over the butter. Starting from a wide side, tightly roll up jelly-roll fashion; pinch edge to seal.

Pick up roll, being careful not to stretch it; place, seam side down, in a greased 10-inch tube pan; pinch ends together to close the circle. Make 7 evenly spaced slashes, ½ inch deep, on top. Cover and let rise in a warm place until doubled, about 45 minutes.

Bake in a 350° oven for 50 to 60 minutes or until it sounds hollow when tapped and is lightly browned. Cool in pan 5 minutes; then turn out on a wire rack. To serve warm from the oven, spoon on sugar glaze, letting it drizzle down sides. Toast individual slices to reheat. (If you make the bread ahead, cool thoroughly, then package airtight. Reheat, wrapped in foil, in a 350° oven for about 20 minutes, then glaze and serve.) Makes 1 large loaf.

Sugar glaze. Blend ½ cup unsifted powdered sugar with 1 tablespoon water until smooth.—*B. L., Las Vegas, New Mexico.*

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DARROW M. WATT

Pastry hearts *and real flowers decorate this breakfast tray spread with date and orange - flavored scones, a soft-cooked egg, and sautéed ham slices*

FEBRUARY MENUS

A casserole dinner from Mexico, some simmered veal shanks from Italy, and ham, eggs, and scones for Valentine's Day

A basket of warm and fragrant heart-shaped English scones is sure to please any valentine on the morning of February 14.

For other occasions this month, you may want to entertain a group of friends. The make-ahead Mexican-flavored casserole in our second menu is especially appropriate for a buffet dinner for 10 to 12 people. Or, for a more intimate dinner for two or three couples, you might serve the candlelight Italian menu featuring simmered veal shanks, fresh fettucine tossed with pesto sauce, and a frozen dessert made from fruit-flavored yogurt.

Valentine's Day breakfast

These buttery scones are easy enough for even novice cooks to prepare. And they go together so quickly, you can sneak out of bed a little early and present them at breakfast as a surprise.

Buttermilk Scone Hearts
Butter Marmalade or Jam
Soft-cooked Eggs
Sautéed Ham Slices
Pomegranate or Cranberry Juice

About 30 minutes before you plan to serve, start preparing the scones. While they bake, you can sauté the ham slices, set out the toppings for the scones, and pour the juice. When scones finish baking, place them in a napkin-lined basket to keep warm while you cook the eggs.

Buttermilk Scone Hearts

- 3 cups all-purpose flour, unsifted
- ⅓ cup sugar
- 2½ teaspoons baking powder
- ½ teaspoon soda
- ¾ teaspoon salt
- ¾ cup cold butter or margarine, cut in small pieces
- ¾ cup snipped dates or currants
- 1 teaspoon grated orange peel
- 1 cup buttermilk
- About 1 tablespoon cream or milk
- ¼ teaspoon ground cinnamon mixed with 2 tablespoons sugar

In a large bowl, stir together the flour, sugar, baking powder, soda, and salt until blended. Using a pastry blender or two knives, cut the cold butter into flour mixture until it resembles coarse corn meal; stir in the dates and orange peel. Make a well in the center of the butter-flour mixture; add buttermilk all at once. Stir mixture with a fork until dough cleans the sides of the bowl.

With your hands, gather dough into a ball; turn onto a lightly floured board. Roll or pat into a circle ½ inch thick. Using a 2½-inch heart (or other shape

(Continued on page 140)

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COUPON EXPIRES DECEMBER 31, 1977.

10¢

STORE COUPON

cutter), cut into individual scones. Place 1½ inches apart on lightly greased baking sheets.

Using a pastry brush, spread tops of scones with cream; sprinkle lightly with cinnamon-sugar mixture. Bake in a 425° oven 12 minutes or until tops are light brown. Serve warm. Makes about 18 scones.—*J. H., Saratoga, Calif.*

Mexican casserole buffet

In Mexico, a *pastel* refers to any type of pie or casserole containing pastry or tortillas. This casserole, called *pastel de Montezuma*, layers corn tortillas with chunks of cooked turkey or chicken, sour cream, jack cheese, and a Mexican-flavored green sauce. You can make the green sauce quickly in your blender; start with a can of Mexican green tomatoes called tomatillos (available in stores well stocked with Mexican products).

Pastel de Montezuma
Butter-steamed Zucchini
Beet and Orange - topped Romaine Salad
Pound Cake

Up to two days ahead of time, you can cook the turkey or chicken and make the green sauce for the casserole. The evening before the buffet, assemble the casserole; cover and refrigerate.

About 1 hour before you plan to serve, put the casserole in the oven. While it bakes you can cut the zucchini and assemble the salad; break a large head of romaine into a salad bowl, then top with slices of fresh orange, pickled beets, and thinly sliced red onion. About 10 minutes before the casserole finishes baking, start butter-steaming the zucchini, then toss the salad with your favorite oil and red wine vinegar dressing.

Pastel de Montezuma

- 6 cups boned and skinned cooked turkey or chicken, cut into ½ by 2-inch pieces
- Green sauce (directions follow)
- 1 pint (2 cups) sour cream
- 1 dozen 6-inch corn tortillas, cut into 1½-inch pieces
- 1½ pounds jack cheese, shredded or finely chopped

Arrange half the turkey pieces in a lightly greased 9 by 13-inch baking dish or a shallow 3-quart casserole. Spread over half the green sauce and half the sour cream; top with half the tortilla pieces and half the cheese. Repeat layers, using remaining turkey, green sauce, sour cream, and tortillas, ending with remaining cheese. Cover dish with foil; refrigerate until the next day if desired.

Bake, covered, in a 375° oven for 40 minutes (45 minutes if refrigerated); uncover and bake an additional 8 minutes or until cheese is bubbly and casserole is hot throughout. Cut into squares to serve. Makes 8 to 12 servings.

Green sauce. In a blender container, combine 1 can (14 oz.) Mexican tomatillos, drained; 1 small onion, cut in pieces; 2 cloves garlic; 1 can (4 oz.) whole California green chiles, pith and stem removed; 1 bunch (about ½ cup) chopped fresh coriander (cilantro); 1 teaspoon salt; and ½ teaspoon sugar. Whirl until smoothly puréed.

DARROW M. WATT

Vegetable bits *color the sauce of Italian-seasoned veal shanks; marrow forks help pick out treat in bones*

Candlelight Italian dinner

Veal shanks are often available at thrifty prices in Western markets. You can turn them into company fare by simmering them in a garlic and lemon - flavored wine sauce to resemble the Italian dish *osso buco* ("marrow bones"). You might offer marrow forks so guests can get at all the goodness inside the bones.

With the meat we suggest fettucine noodles; serve them simply, tossed with packaged freeze-dried (or frozen) pesto sauce or with butter, salt, and pepper. Complete the menu with a salad, and a frozen dessert you make from your favorite fruit-flavored yogurt.

Garlic and Lemon - simmered Veal Shanks
Fettucine Noodles with Pesto Sauce
Bread Sticks
Butter Lettuce with Tomatoes and Artichokes
Frozen Yogurt Dessert

Early on the day of serving or the day before, you can make the yogurt dessert and prepare 1 package (½ oz.) freeze-dried pesto sauce according to package directions. You can also cook the veal shanks ahead, but wait to thicken their sauce until shortly before serving.

About 20 minutes before dinner, complete the veal dish. While it keeps warm in the oven, you can cook the fettucine noodles, toss them with butter, cheese,

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and pesto sauce as package directs, the assemble the salad.

Garlic and Lemon - simmered Veal Shanks

About 4½ pounds meaty veal shanks, cut in 1 to 1¼-inch-thick pieces
Salt and pepper
¼ cup olive oil or salad oil
2 large onions, thinly sliced and separated into rings
1 cup finely minced fresh parsley
1½ teaspoons grated lemon peel
4 or 5 cloves garlic, minced or pressed
1 cup diced carrot
1½ teaspoons chicken-stock base dissolved in 1¼ cups hot water
¾ cup dry white wine
1 teaspoon dry basil
½ teaspoon thyme leaves
2 tablespoons cornstarch dissolved in 2 tablespoons water

Lightly sprinkle veal shanks with sa and pepper.

Heat 2 tablespoons of the oil in a 5 t 6-quart Dutch oven set over mediun high heat. Add about half the shanks ar brown well on all sides; set aside. Ac remaining oil to pan and brown remai ing shanks. Remove shanks from pa Reduce heat to medium and add th onions to the pan; cook, stirring u brown bits, just until onion is limp.

Mix together the parsley, lemon pee and garlic. Add half the parsley mixtu (reserve remainder) and all the carrots the onions; cook, stirring, 1 minute, the remove from heat.

Arrange browned shanks and vegetabl in layers in Dutch oven. Stir together th broth mixture, wine, basil, and thym pour over shanks and vegetables. Cov and simmer over low heat for 1½ hou or until shanks are so tender the me almost falls from the bones.

With a slotted or runcible spoon, car fully lift shanks from cooking liqui place on a heatproof serving dish ar keep in a warm oven (or cover and ch if made ahead). Add all but 2 tabl spoons of the remaining parsley mixtu and all the cornstarch mixture to t cooking liquid. Turn heat up to high ar cook, stirring constantly, until mixtu boils and thickens, about 1 minute. Po over shanks; garnish with remaini parsley mixture. Makes 4 to 6 servings.

Frozen Yogurt Dessert

Beat 2 egg whites in a mixing bowl un soft peaks form. Gradually add 3 tab spoons sugar and continue beating un stiff, but not dry, peaks form. Brisk stir 3 cups fruit-flavored yogurt un smooth and creamy and fruit is well d tributed; fold into egg whites just un blended. Turn mixture into a 9-in square baking dish; cover and free until solid, at least 5 hours.

To serve, let the dessert soften slightly room temperature, then scoop it ir stemmed glasses to serve. Makes abc 6 servings.

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What's running neck and neck with Mom's All-American position?

Iowa corn, Boston beans, Louisiana hot sauce, and good old catsup are even more American than we usually think. They're neck and neck with apple pie and running well up toward the position held by Mom.

In fact, these plants—corn, beans, peppers, and tomatoes—are the true natives of our land. They were waiting here for the Indians, hosted the Spaniards, and saved the Pilgrims. Each new wave used the plants in its own way: Ohio chile is not Sonoran refried beans.

Michael Grady developed his Spanish Gunk because of those differences. He says, "I'm a native Californian, but lived with my family in the Midwest for four years. We all developed a crying homesickness for West Coast - style Mexican cookery. Midwest-style Mexican food is good but not what we're used to, so I developed this quick bean-cheese-tortilla recipe."

The charm of this dish is that it takes little time to prepare, but looks like party fare if you lay it out properly on the dining table. Keep the basic bean mixture warm in a chafing dish or on an electric warming tray and place each of the condiments in its own dish. Then let diners choose their own favorite combinations from the array.

Spanish Gunk

- ¾ pound lean ground beef
- 2 medium-sized onions, chopped
- 1 clove garlic, minced or pressed
- 1 can (about 1 lb.) refried beans
- 1 can (15 oz.) chile with beans
- 1 cup shredded jack cheese or Cheddar cheese
- 2 to 3 teaspoons seeded and minced pickled yellow wax peppers
- Salt
- 10 to 12 whole wheat or flour tortillas
- Condiments (suggestions follow)

Heat a frying pan over medium heat; add beef and cook, stirring often, until brown and crumbly. Add onions and garlic and cook until onion is limp. Stir in the refried beans and chile with beans; heat through. Reduce heat to low and stir in jack cheese, peppers, and salt to taste; cook until cheese is melted.

Meanwhile, wrap tortillas in foil and hea in a 350° oven for 10 minutes or unt hot through.

To serve, offer warm tortillas, the bea mixture, and the condiments in separat bowls. Let each person build his ow combination. Makes 10 to 12 filled to tillas, or 4 to 6 servings.

Condiments: shredded lettuce, dice tomato, shredded jack or Chedd cheese, chopped green onion, diced av cado, and bottled taco sauce.

Michael Grady

Escondido, Calif.

"I am, by training and profession, fisheries scientist," says Dale Snow Newport, Oregon. "My approach cooking is the same as that of the ear alchemists: Throw everything togeth and see what happens. You might ref to it as uncontrolled research."

In this curious world no other approac is really very fruitful. The crucial poi for the researcher is, of course, decidi whether what happened is worth repea ing and whether it suggests any gener principles.

The well-known alchemist Sir Isa Newton managed to draw physics a calculus from the dross of his alembi and retorts. Mr. Snow steps away fro his French knives and measuring spoo with Slaw à la Snow.

Slaw à la Snow

- About 1 pound head cabbage
- 1 green pepper, seeded and chopped
- ½ cup chopped celery
- ½ cup thinly sliced green onions, tops included
- ½ cup chopped dill pickle
- 1 can (2 oz.) pimientos, drained and chopped
- 1 teaspoon salt
- 1 clove garlic, minced or pressed
- 2 firm ripe avocados
- ¼ cup sour cream
- ½ cup mayonnaise or salad dressing
- 1 teaspoon Dijon mustard

With a knife, finely shred the cabbag you should have 4 cups. Combine ca bage, green pepper, celery, onion pickle, pimientos, salt, garlic. Place a salad bowl, cover, and chill for 2 hour Just before serving, peel, pit, and di avocados and add to cabbage mixtur Stir together sour cream, mayonnais and mustard; pour over cabbage mixtu and toss. Makes about 6 servings.

C. Dale Snow

Newport, Ore.

Blue cheese is basically milk that h caught penicillin. The blue mold th gives the new cheese its aspect and flav is *Penicillium*, that hero of hospitals a scourge of oranges. Kingpin of t

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You start with Betty Crocker Cake Mixes. Then simply mix these delicious treats with a fork right in the pans they're baked in. No beaters, no bowls, no greasing. Each marvelously moist cake is made with fruit, pudding or pie filling. Stir up one for your family tonight. And look for other Mix-In-Pan recipes on Betty Crocker Cake Mix packages.

Applesauce Nut Cake

1 package Betty Crocker® yellow cake mix
1 package (3¾ ounces) vanilla instant pudding and pie filling
½ cup chopped nuts
½ cup raisins
1 teaspoon cinnamon
1½ cups applesauce
¼ cup vegetable oil
3 eggs

Heat oven to 350°. Mix all ingredients in ungreased oblong pan, 13x9x2 inches, with fork, scraping corners frequently, until moistened. Stir batter vigorously with fork 1 minute; scrape sides with rubber spatula. Spread batter evenly in pan. Bake until top springs back when touched lightly in center, 35 to 40 minutes; cool. Loosen cake from sides; cut and serve directly from pan. Store any remaining cake loosely covered in refrigerator.
High Altitude (over 3500 feet): Not recommended for use.

Look for other delicious recipes on all of our cake mix packages.

*Reg. T.M. of General Mills, Inc.

Sour Cream Peach Cake

package Betty Crocker® Sunkist** orange cake mix
can (21 ounces) peach pie filling
½ cup dairy sour cream
2 eggs

eat oven to 350°. Mix all ingredients in ungreased oblong pan, 13x9x2 inches, ith fork, scraping corners frequently, until moistened. Stir batter vigorously ith fork 1 minute; scrape sides with rubber spatula. Spread batter evenly pan. Bake until top springs back when touched lightly in center, 40 to 5 minutes; cool. Loosen cake from sides; cut and serve directly from an. Store any remaining cake loosely covered in refrigerator.
igh Altitude (over 3500 feet): Heat oven to 375°. Stir 2 table-oons flour into cake mix. Continue as directed.

Look for other delicious recipes on all of our cake mix packages.

*Reg. T.M. of General Mills, Inc.
**Reg. T.M. of Sunkist Growers, Inc.

Triple Chocolate Cake

1 package Betty Crocker* devils food cake mix
1 package (4½ ounces) chocolate instant pudding and pie filling
1 package (6 ounces) semi-sweet chocolate chips
1¼ cups water
¼ cup vegetable oil
2 eggs

Heat oven to 350°. Mix all ingredients in ungreased oblong pan, 13x9x2 inches, with fork, scraping corners frequently, until moistened. Stir batter vigorously with fork 1 minute; scrape sides with rubber spatula. Spread batter evenly in pan. Bake until top springs back when touched lightly in center, 40 to 45 minutes; cool. Loosen cake from sides; cut and serve directly from pan. Store any remaining cake loosely covered in refrigerator.
High Altitude (over 3500 feet): Not recommended for use.

Look for other delicious recipes on all of our cake mix packages.

*Reg. T.M. of General Mills, Inc.

The best things egin with Betty Crocker

Sally really loved her baby shower.

Her mother thought the centerpiece was beautiful.

Her best friend raved about the clam dip.

And her cousin noticed the spotty glasses.

If you have spot problems...

Get the Cascade look virtually spotless.

For virtually spotless dishes, nothing can beat Cascade.

Most detergents can leave spot problems, but Cascade's sheeting action fights drops that spot. Give glasses the Cascade look: bright...shiny... virtually spotless!

"Kingpin of moldy cheeses is the sheep's milk version, but some lesser cow's milk cheese could do"

idy cheeses is the sheep's milk version m the French caves at Roquefort. ce this is a cheese to be savored, some er cow's milk cheese could do for following recipe. *Chef* Sam Shippy Napa, California, first donned his hat ne 35 years ago and now addresses meeting for the third time.

ppy's Blue Cheese Dressing

- ¾ cup salad oil
- ½ teaspoon salt
- ½ teaspoon pepper
- 1 teaspoon dry mustard
- ¼ cup white wine vinegar
- ¼ pound crumbled blue-vein cheese
- Crisp greens

ce oil, salt, pepper, mustard, vinegar, l half of the cheese in a blender con- ner and whirl briefly. Crumble re- ining cheese and stir into dressing. ve over chilled salad greens. Makes out 1½ cups dressing.

Napa, Calif.

let of sole lends itself to a variety of atments. In particular, it seems to npt people to roll it around a filling. Matthews of San Jose has succumbed this temptation and gives us Stuffed le Princess. (The princess is Mrs. atthews, who enjoyed both the sole d the evening off.)

uffed Sole Princess

- 4 large sole fillets (about 1½ pounds)
- ¼ pound small cooked shrimp
- Salt and pepper
- Paprika
- 1 tablespoon lemon juice
- ¼ cup dry white wine
- 2 tablespoons chopped green onion
- 1 clove garlic, minced or pressed
- 2 tablespoons butter or margarine
- 1 tablespoon all-purpose flour

y the sole fillets flat; divide the shrimp enly among them, setting shrimp in band across one end of each fillet. ll up around shrimp and secure with a toothpick. Place rolled fillets in a greased, shallow baking dish and season with salt, pepper and paprika. Stir together lemon juice, wine, onion, and garlic; pour over fish. Cover and bake in a 350° oven for 25 minutes or until fish flakes readily when pierced.

When sole is nearly done, melt the butter in a small saucepan and stir in flour. Transfer the cooked sole to a serving plate and keep warm. Gradually pour the liquid from the baking dish into the flour mixture, and cook over medium heat, stirring constantly, until thickened. Pour over sole and serve immediately. Makes 4 servings.

San Jose

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MRS. R. G. WILSON,
Pasadena, California

Every Cure/81 Ham is inspected and registered individually. No other ham gives you this assurance of dependable leanness, tenderness and flavor. Ham after ham, slice after slice.

Hormel Cure|81 Ham. Dependability worth paying for.

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NATURAL CHEDDAR CHEESE
EXTRA SHARP
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Your joy.

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Long before Cracker Barrel takes its place on your cheese board, we've been nurturing it—from the finest ingredients, to the most patient aging and curing. When the day comes that we can say, "this is our best", only then is it named Cracker Barrel. And we stand behind it from then on. We have our pride, we want you to enjoy it. It's another reason America spells cheese K R A F T.

KRAFT Division of Kraftco Corporation

EBRUARY IN YOUR GARDEN:

Rufflings of spring mean it's hurry time for pruning, spraying, bare-root planting

ie capricious weather of February is ly a sign of change: Winter is passing, d the first rufflings of spring are al-ady apparent. If you have almonds, ciduous magnolias, or flowering ince, take their blooms as an omen. ie buds of most deciduous fruit trees e swelling, and the last of winter prun-g and spraying must be done fast.

urseries will have some bare-root bar-ins until the weather begins to warm , and you may find good prices and anting opportunities for cool-season nuals.

ooling up for spring

ere are specialized garden tools for arly every purpose, and often the only oblem is finding out what the imple-ent is called and where to get it. Two free Midwestern horticultural catalogs can help.

Mellinger's 86-page catalog includes equipment and a broad array of plants. Among the tools you'll find are hand-powered cultivators, freeze alarms, a flame gun, and several specialized plant foods and sprays. It also has the stand-ard array of shovels, mattocks, and weeders. The catalog is available from Mellinger's, 2310 West South Range, North Lima, Ohio 44452.

The 72-page A.M. Leonard catalog lists only horticultural equipment. You'll find all the expected equipment here—rakes, augers, scythes, clippers—plus hard-to-find electric cranes, pumps, grafting kits, even lightning protectors for trees. For a copy, write to A.M. Leonard & Son, Box 816, Piqua, Ohio 45356.

STEVE W. MARLEY

ighteen years ago the J. Thaddeus Clines of Danville, California, planted apes across the front of their property, one vine to each fence post ictured above). 'Lady Finger' grows over the entry gate at left; 'Ribier' and hompson Seedless' were also used. Within three years the vines were oviding an eye-level screen during summer, fruit in September, and a peating pattern of vines and trunks in winter.

rapes require little care—another good reason to plant them. They need an nual, early spring pruning, but the Clines have never had to feed or lfur these, and watering an adjacent lawn gives the vines enough moisture. ie only losses have been to marauding deer that eat the grapes (they efer 'Thompson Seedless'), leaves, and even the canes.

y grapevines this month to get the year's best prices. Some nurseries sell o categories of grapes. American varieties—'Concord' and 'Seneca' are amples—do best where cold winters are the rule. European varieties, such those grown by the Clines, are suited to California's lower elevations.

Sunset's GARDEN GUIDE

U.C. Berkeley, one tree at a time

One of the University of California's most popular publications, *Trees of the Berkeley Campus,* has just been extensively revised and reprinted. Since the book's first printing, many new trees have been planted, while many old ones have been destroyed to make way for new buildings and parking lots.

A walk through the Cal campus with this book in hand can help you learn to identify different trees. It can also give you ideas for varieties to plant in your own garden, although some of the exotic trees you'll see are not commercially available.

The book lists nearly 300 trees and large shrubs by species, gives their location, and describes each. It includes a map of campus landmarks and has appendixes that cross-reference trees by location and also by common name.

To order *Trees of the Berkeley Campus,* send a check or money order for $5.30 (payable to Regents of the University of California) to Agricultural Publications, 1422 S. 10th St., Richmond, Calif. 94804. (Out of state, send $5.)

What tastes like a melon, looks like a squash, comes from Tahiti?

We'll give you a hint: It's sold as melon squash. Just introduced, this large Tahitian vegetable (said to occasionally reach 40 pounds) looks something like a huge, crookneck squash, but it is much less starchy.

The flavor of the melon squash's sweet, juicy flesh, uncooked, is comparable to cantaloupe. Yet it can be baked, boiled, fried, steamed, or even made into pies;

Sunset's GARDEN GUIDE

cook it for about a third as long as you would winter squash.

Grow melon squash as you do other squashes. Sow seeds after frost danger has passed; allow about 8 linear feet per vine. The fruits turn golden yellow when ripe. If the vine dies first, bring fruits inside to ripen. They can be stored for six months or more at 50° to 60°.

So far, melon squash seeds are available only from Thompson & Morgan, Box 24, Somerdale, N.J. 08083.

Old barrels *keep fast-spreading golden bamboo in place. Planted in rich topsoil, all that bamboo needs to thrive is regular watering*

Not all lipsticks are the same

Six related plants are commonly sold in the West as lipstick plants, but there are significant differences. Always sold as greenhouse or house plants, all have trailing branches, and all have tubular flowers (see photograph below) that emerge from calyxes like lipstick rolled up from a tube. But only two are true lipsticks.

If the botanical name is *Aeschynanthus lobbianus* or *A. pulcher,* you've found a true lipstick plant. Both have 1 or 2-inch leaves and 2-inch red tubular flowers. *A. pulcher* has more flower showing, but a lighter, green to purplish calyx.

You'll know *A.* 'Black Pagoda' and *A. marmoratus* by the exotic chocolate-maroon mottling on their 3 to 4-inch leaves. The first produces a 4-inch, yellow-throated orange flower in a dark green calyx; the latter shows the most attractive foliage, but rarely has flowers.

A. speciosus and *A. splendidus* also have larger leaves and flowers—3 to 4 inches. Blossoms of both are yellow-orange with maroon or red markings, but *A. splendidus* has larger flowers, and no yellow-orange patch at each flower's base.

Lipstick plant *derives its name from the maturing flower that pushes up out of the calyx (the tube around the base of the flower). Some people also think the leaves resemble lips*

She has the advantages of bamboo without the problem

Bamboo is hard to keep from mult ing. Margery Conger foresaw the p lem when she moved into her M Park, California, house and transpl three clumps of golden bamboo her garden into the barrel-half pla shown above.

In the four years since, she hasn't to repot and only applies manure a year. What the container bar really needs is water three or four a week, or daily when it's hot and d

A container full of bamboo make effective screen. These plants sep Mrs. Conger's front door from a residential street.

More potted plants, less water

It's long been thought that water standing in the saucer beneath a p plant encourages root rot and acts collecting basin for fertilizer salts, v injure plants when they build up. is one reason that outdoor and g house container plants rarely have cers under them.

But an experiment conducted durin year's drought may change the old t ing. A chrysanthemum grower in Moon Bay, California—faced wit creased production and water rati —put plastic saucers under his pl potted mums. The saucers collecte runoff, which plants reabsorbed as started to dry out.

Watering frequency was cut in half plants needed only half as much

atering as before. Water reduction otaled 75 percent.

o deal with salt buildup, the grower opped using slow-release fertilizer, hich caused salt accumulation, and sed only half the usually prescribed mount of a liquid fertilizer. There was o loss in plant quality.

aucers under plants in the house can so cause another kind of trouble—e page 162.)

he zesty mints

ummer is close enough for you to begin inking of ways to make it a little nicer. you plant mint now, your herb garden n provide a wide variety of zesty stes and fragrances for lemonade, ixed drinks, iced tea, fruit salad, and uit drinks.

here are many kinds of mint. Most are erennials that need partial shade and reire minimum care. Plant in rich, wellained soil in the ground, in raised beds, in containers, and give them plenty water.

local nurseries don't offer a good selecon, you can order orange mint, pineple mint, spearmint, apple mint, and orsican mint from Nichols Garden ursery, 1190 N. Pacific Hwy., Albany, re. 97321; their catalog costs 26 cents.

Plants in the Cow Palace

For an overview of the world of indoor plants, outdoor plants, and related garden products, plan to attend the second annual World of Plants and Crafts at the Cow Palace (off U.S. Highway 101 at the south edge of San Francisco). The show runs February 18 through 27, noon to 10 P.M. daily. On the last Sunday, doors close at 8.

You'll see exhibits on bulbs, vegetable gardening, hydroponic gardening, flower arranging. Speakers include Joe Carcione, Bert Bertolerro, Albert Wilson.

More than 100,000 people attended last year's show; crowds were heavy on weekends, so it's best to go on a weekday if you can. Admission is $2.50 for adults, $1.50 for senior citizens and children 16 and under.

Why short or round carrots?

Since most carrots are long, slender, and finger shaped, very short or actually round varieties can be considered unusual. But they are listed in some seed catalogs and are good choices for soil unsuited to standard carrot varieties.

They don't demand much depth, so many gardeners grow them in topsoil that's naturally very shallow, rocky, or hard packed and resistant to cultivating down more than a few inches.

DARROW M. WATT

Round carrots *are 1 to 1½ inches in diameter; they usually mature faster than longer varieties*

In food preparation, beet-shaped carrots (see photograph above) are just the right size to be used whole for stews, dips, and garnishes. To remove the skin of any short carrot, rub vigorously with a synthetic sponge—the kind made for cleaning pots and pans. □

FEBRUARY CHECK LIST: *Here's your late winter action*

☐ **Annuals.** Plant calendulas, English primroses, Iceland poppies, pansies, snapdragons, stock, and violas for late winter or early spring bloom. Also feed fall-planted annuals since they'll start their main blooming in a few weeks. If you live near the coast, later this month you can set out cineraria, nemesia, and schizanthus. It's too early to plant them inland, where you'll risk frost burn.

☐ **Azaleas, camellias.** Both will be in bloom in nurseries this month, so you can see exactly what you're getting. Trim established azaleas; for azaleas and camellias, feed with a complete, acid fertilizer after flowers have faded.

☐ **Bulbs.** Most spring and summer bulbs can go in this month. Among them are anemones, callas, cannas, gladiolus, lilies, ranunculus, and tuberous begonias. Plant them at two or three-week intervals for a succession of bloom. Don't plant dahlias now, but do prepare the soil for them: Cultivate to a depth of 1 foot, dig in ground bark or peat moss, and add sand where soil is heavy.

☐ **Deciduous fruit trees.** Feed them now, before they bloom. Also spray peach or nectarine trees for peach leaf curl as buds begin to swell. Use a drenching spray containing copper or ziram.

☐ **Lawns.** Feed now to encourage growth during warm spells and give lawns a head start against weeds. If you've had problems with crabgrass in the past, apply a preventive control now. Wait until March to apply broadleaf weed controls.

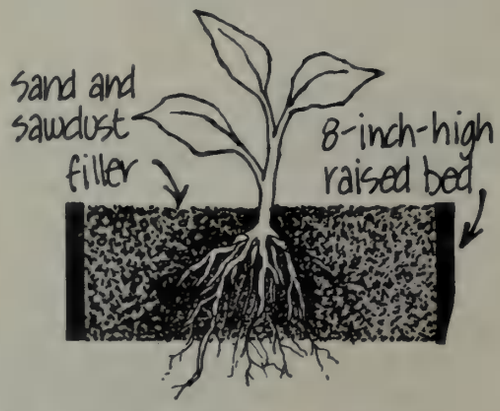
☐ **Roses.** Prune as buds begin to swell. First take off all wood that is dead, heavily scaled, sunburned, or covered with lesions. Then take out branches that cross through center of plant or rub on other canes, and prune for shape. Don't prune climbers until after spring bloom.

☐ **Snails and slugs.** Bait as soon as night temperatures start to stay above 40°, or when snail favorites—crocus and daffodil flowers—first appear.

☐ **Vegetables.** If you're willing to gamble on the weather staying cool, try for a late crop of broccoli, cabbage, or spinach. But if you like to hedge your bets, also plant beets, carrots, chard, leeks, lettuce, mustard, onions, parsley, parsnips, peas, radishes, and turnips. Plant seeds of summer vegetables (eggplant, peppers, tomatoes) only if you can keep seedlings in a sunny spot indoors until all danger of late frost has passed.

Custom-mixed fertilizer *goes on tomatoes being trained up strings. They're growing in raised bed filled with lightweight planting medium*

The *Mittleider* way . . . big yield of vegetables, minimum work



Most roots *grow in the raised bed, where lightweight soil allows easy air, root, and fertilizer penetration. But some reach into the subsoil for additional nutrients, as the lifted-out plant at left demonstrates*

An efficient but little-known system of gardening is just gaining a foothold in the West. Called the Mittleider method (after Jacob Mittleider, who developed it), it works like this: You grow plants in raised beds filled with a lightweight growing medium, and each week you feed them with a complete, custom-made fertilizer. With minimal care, you're rewarded with high yields of vegetables and flowers.

Mittleider's standard-size raised bed is 8 inches deep and 30 feet long. Width is 5 feet outdoors, 15 inches in a greenhouse. The bed should be built on flat ground in full sun. Its sides should be 1 by 8-inch redwood or cedar (they resist decay).

The growing medium that fills the bed should readily accept nutrients and moisture, support plants, and be too light and porous for gophers to burrow through. It should also be easy to weed and cultivate with no tools but your hands.

Among the mediums you can make th have these qualities are a 50/50 mixtu of fine sand (30 mesh) and peat moss; 75/25 mixture of sawdust (not shaving and fine sand; and a 50/50 mixture perlite and peat moss (or sawdust).

To start, spread 10 pounds of gypsu evenly over the bottom of the raised b (ingredients listed are for a 5-foot by 3 foot bed; divide by four for a 15-inch 30-foot greenhouse bed); then fill it wi your choice of the mixtures, dampeni with water as you go.

Fertilizer formulas

Now mix in the preplanting fertiliz Use 4 pounds *each* of double (or trip superphosphate and sulfate of ammon 2 pounds *each* of magnesium sulf (Epsom salts) and potassium sulfate (potassium chloride); and 2 ounces boron (sold as borax in supermarket Spread 5 pounds of gypsum over th and thoroughly mix all of it into the s

Now the bed is ready to plant. St weekly feeding the day that seeds spr or seedlings go in; stop feeding t weeks before harvest. Fertilizing in p cise proportions is the heart of this s tem of gardening. The formulas giv here are meant to provide most nec sary nutrients, not just the big th (nitrogen, phosphorus, and potassium).

The following mixture will give y enough fertilizer for all the plants in by 30-foot bed for a six month seas Mix 8 pounds ammonium nitrate, pounds magnesium sulfate, 4½ pour potassium chloride (or potassium s fate), 1½ pounds diammonium ph phate, and ⅓ ounce boron (10 gran Keep mixture in a tightly closed c tainer or it may liquefy. Store as would any volatile material; it can plode at temperatures above 450°.

Firms that mail-order all the above gredients are Wilkens Enterprises, B 13238, Oakland 94661; and Grow B 2047 Lomita Blvd., Lomita, Calif. 907

Feeding and watering

Once a week, give 1¼ pounds of tilizer to plants in the raised bed. Feed hand, sprinkling fertilizer beside e row about 4 inches from plants (should take just 2 or 3 minutes per b Immediately water fertilizer in.

Depending upon how hot or dry it you'll need to water once or twic week. Use a soaker hose or one wit spray attachment so that you don't w out seeds. Irrigate until water seeps the bottom of the raised bed.

Dr. Mittleider's book, *More Food Fr Your Garden* (Woodbridge Press, Sa Barbara, 1975; $4.50), is a help source for alternate fertilizer formu and covers everything from grow techniques to simple greenhouse plan

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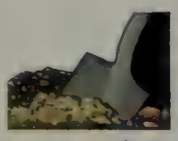
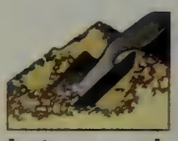


Peat moss. Canadian sphagnum, exclusively — for its unmatched water retention, even consistency and predictable pH level.



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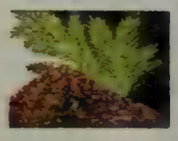

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So there is our formula for success, thriving success. Why not share it with your spring seeds and plants. Look for Supersoil at your nursery, supermarket or garden supply store!

Supersoil®
potting mix

"Favorite potting mix of Western gardeners . . . and their plants!"

© Rod McLellan Co., 1977

Book unlocks the perennials

A reviving interest in flowering per nials may send you looking for a gu to this vast and varied group of plar Get Graham Stuart Thomas's *Perenn Garden Plants, or the Modern Flor gium* (J. M. Dent and Sons Ltd., Lond 1976); it is worth every penny of $21.50 price.

The bulk of the book—284 pages—i dictionary of perennial plants concise clearly, and even gracefully describ With each description is a fearless (a rarely found) statement of each pla height *and* width—the latter measu ment especially important when pl ning borders. Dimensions are given b metrically and in feet and inches.

More than just the facts

Plant descriptions give opinions as w as facts, and include judgments esthetics—color quality, color harr nies, and the like—along with histori notes and general cultural hints. T author is well qualified to make s judgments: He has been director o prestigious English nursery and is c rently Gardens Consultant to the N tional Trust, an agency for preserv and improving England's great garde

How does it serve the West?

Although written primarily for Bri gardeners, Thomas's book is useful those in the Western United Sta From northernmost Scotland to the n southwestern tip of Cornwall, Brit accommodates plants from nearly all world. We can't grow all their pla everywhere in the West, but we can gr all of them somewhere. And a few— gingers, for example—should do be in Los Angeles than London, altho they're cold-hardy enough for Ore and Washington.

The first 39 pages furnish general in mation on growing perennials and ble ing them with trees, shrubs, and gro covers. There is a brief, highly infor tive chapter on perennials in the sr garden (Thomas is aware that h estates and lavish borders are to adm not copy). Supplementary lists co plants with evergreen foliage (West ers expect their plants to be evergre plants with especially handsome foli (gray, variegated, sword-shaped, grassy), and plants for particular si tions (shade, wet soil, the seaside).

The book also has pencil drawings the author, along with photograph color and black-and-white.

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EXAMPLES OF TYPICAL HOMEOWNER LOAN PAYMENTS

Amount Borrowed	Monthly Payment	Term	FINANCE CHARGE	Total Payment
$ 5,000	$ 88.26	7 yrs	$2,413.84	$ 7,413.84
5,000	71.74	10 yrs	3,608.80	8,608.80
7,500	132.40	7 yrs	3,621.60	11,121.60
7,500	107.60	10 yrs	5,412.00	12,912.00
10,000	176.53	7 yrs	4,828.52	14,828.52
10,000	143.47	10 yrs	7,216.40	17,216.40

ANNUAL PERCENTAGE RATE: *12%
*ANNUAL PERCENTAGE RATE PRIOR TO CLOSING COSTS.

Check this chart for the amount and schedule that suits your plans (other erms are also available). Then check with your nearest Wells Fargo Bank office or more details and a Homeowner Loan application, or call us 24 hours a day, oll free, at **800-772-3909.**

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The Distinctively Better

Variety 'Imperial Countess' Azalea. The photo shows what you can expect!

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Striking *flower of Bletilla striata is deep lavender, 1½ to 2 inches wide*

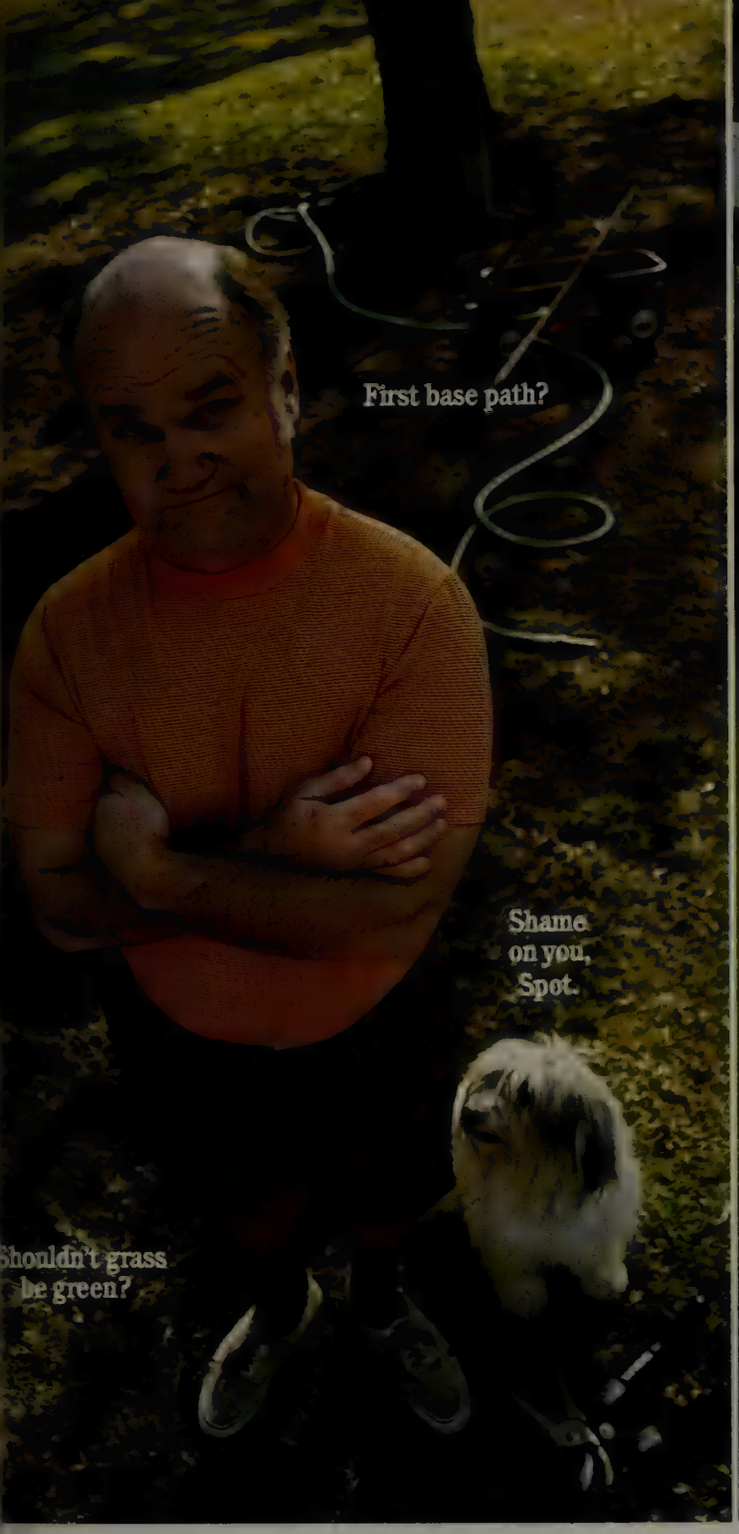
They're not rare or costly, just easy

The flowers of the Chinese grou orchid (*Bletilla striata*) have the fo and color of little cattleya orchids. Th are indeed orchids but, far from be rare, costly, and hard to grow, they inexpensive and of easiest culture. Y might call them everyman's orchids. you are skeptical, buy a few this mo and give them a try. At about 50 ce apiece you too can be an orchid fancie

Plant the bulblike divisions as soon you bring them home. Set them an in deep in loose, woodsy, humus-enrich soil in a partially shaded spot or in po Use pots in areas where spring tempe ture fluctuations are extreme; a drop 20° can damage sprouting leaves, thou the plants are safe enough. Bring p under shelter during late frosts. Mu open ground plantings.

Plaited leaves 8 to 12 inches long w appear in the spring, followed by clust of 1½ to 2-inch flowers on 18 to 24-in stems in June. Flowers are deep lav der, and last for nearly six weeks. Pla eventually spread to form large, clum These may be divided, but not too of —crowded clumps bloom better.

Bletillas do not mind heat. Hundreds them—descendants of a few planted years ago—bloom in the garden Lottie Glunz in Woodland, Califor where summer temperatures routin reach 100°. Her bletillas thrive in shade of tall redwoods and need onl 15-minute misting every other even for irrigation and humidity.



A new cure for the problems of the middle-aged lawn.

If your lawn is more than 5 years old, hances are it's showing its age. You know the ymptoms—a few weeds, some bald and worn laces . . . maybe a few brown spots contributed by he family dog . . . and face it, your lawn looks iddle-aged.

The way to give it new vitality is to add ome Fast & Fine® grass seed from Northrup King. t's a blend of 3 kinds of grasses that includes ennfine,® a revolutionary new fine-leafed ryegrass hat comes up nearly 70% faster than bluegrass and lends beautifully with the grass you already have. In fact, unless you're a turf expert, you'll have a hard time telling it from the finest bluegrasses.

Pennfine is hearty, too. Its root system penetrates even the compacted soil of an old lawn and reaches down 12 to 18 inches for nourishment. You just rough up the thin and bald spots, and seed.

Get your middle-aged lawn back into shape with Fast & Fine.

Too bad it only works on lawns.

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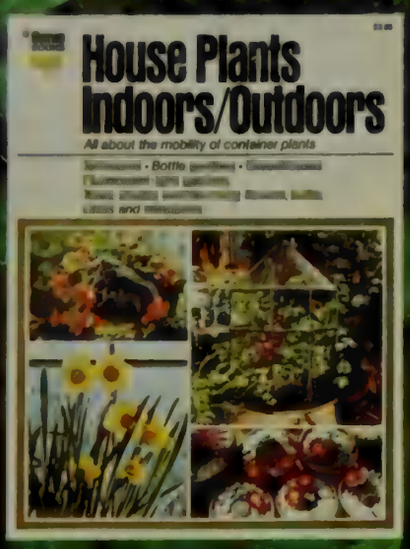

These two beautiful and colorfully illustrated ORTHO® books cover just about everything you'd ever want to know about house plants.

They're available at a suggested retail price of $3.98 each, wherever ORTHO products are sold or at better bookstores.

Then you can talk to your plants in their own language.

Chevron

ORTHO Chevron Chemical Company

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Jar method: *Rinse sprouts and drain water through screened lid two or three times a day. Crunchy, peppery blend includes alfalfa, lentil, mung, mustard*

Instead of just alfalfa, why not grow a crunchy *mix* of sprouts?

For a variation in the grassy flavor and tender-crisp texture of alfalfa, try sprouting it with other seeds at the same time. You may find that you like a blend of sprouts better than one kind by itself.

For a peppery bite, add one or all of these: cress, mustard, or radish seeds. They're all green sprouts about the same size and texture as alfalfa.

For a blend with more substantial crunch, try lentils, mung, and fenugreek seeds—together or with any of the other four kinds.

We tried several combinations of three to five kinds of seeds in equal proportions, with good results. Vary the ratio of different kinds to suit your taste. Sprouts that you might find too strong individually (especially raw) may be quite tasty combined with others. A blend of sprouts can be used to make salads (alone or with other greens), to replace lettuce in sandwiches, to garnish soups a few minutes before serving, or to sauté with other vegetables.

Here we explain two basic sprouting techniques. Use only the pan method for cress—its seeds become mucilaginous when wet, so they spoil in jars.

All of these seeds take four to six days to mature. They're available in bulk from most health food stores, or through many mail-order seed catalogs.

For a sprouting jar, use a 1 or 2-quart wide-mouth bottle and a jar ring fitted with screen or clean nylon. When sprouted, 1 tablespoon of alfalfa seeds will fill a quart jar: use 2 to 3 tablespoons total of mixed seeds. Discard broken seeds; individually sprout any whose viability is questionable.

Soak seeds in two to three times their volume of water overnight. D through the screen as shown above; p jar on its side out of direct sunlight a place that stays about room temp ture. Rinse and drain through the sc two or three times a day.

Give alfalfa, cress, mustard, and ra sprouts indirect sun to make le green; harvest when leaves open. H vest fenugreek, lentil, and mung w sprouts are ½ to 1 inch long. Inse lid under the screen and refrigerate ready to use (up to about two weeks)

Pan-grown sprouts need less attent Line the bottom of any shallow metallic container with cheesecloth white paper towels. Sprinkle a solid l of seeds over the surface, as shown low. Cover seeds with water overni Drain off unabsorbed water the morning and cover the container clear plastic wrap. Add more wate necessary to keep the cloth or t liner wet.

Pull or snip off sprouts as you're re to use them. Cover and refrigerat using large-seeded sprouts, or to k your crop more than a few days.

Pan method: *Sprinkle seeds onto wet paper towels. Kept covered and moist, they'll sprout in four to six days*

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Why rake or bag grass clippings when you can turn them into lawn food

With the new Jacobsen Twin-Blade mulching mower, the clippings you used to bag are chopped up into tiny particles that disappear into your lawn, decompose quickly, and feed the grass.

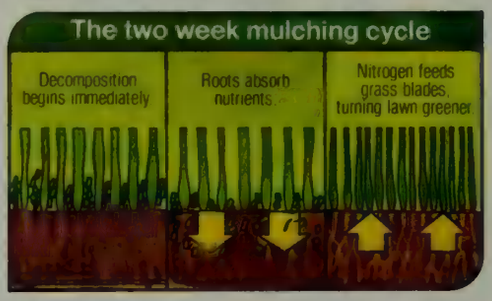
It also features the exclusive Power Burst™ control to help prevent clogging in heavy grass.

Mulching: The natural way to mow.

An ordinary side discharge mower produces long clippings. It blows them out horizontally so they tend to settle on the surface of the lawn where they turn brown and look shabby.

A mulching mower, on the other hand, makes tiny clippings which are blown vertically into the turf where they filter down to the soil level.

There's no clean-up necessary. No more raking, no more bagging, no more mess.



And if that were all a mulching mower accomplished, it would be enough. But the benefits of mulching don't stop there, because those tiny clippings contain nitrogen, potassium and phosphorous. Vitamins for your lawn.

As the clippings decompose, they release their nutrients into the soil, and within two weeks the grass on your lawn has absorbed them.

You'll see for yourself that your lawn is greener and healthier.

Twin-blade cutting action.

The Jacobsen Twin-Blade Mulcher was designed to manufacture extremely small clippings.

As the grass is cut, the resulting clippings are momentarily suspended in the mowing chamber while the 4 cutting edges whip through them, cutting and recutting each clipping into small confetti-like pieces.

Then it blows them straight down into the lawn. A hard rubber flap brushes the lawn to give it a final grooming.

Power Burst Control

To help prevent clogging or stalling in stretches of tall, tough or lush grass, you'll have a Power Burst 'accelerator' at your fingertips. Push down on the

control bar and you get a sudden sharp increase in blade speed. T keeps the mulching action worki even in tough conditions.

Good for you, good for your lawn.

Mulching is a better way to mow It's better for you because it's quicker and easier, (unless you really enjoy bagging or raking clippings), and it's better for the lawn.

The Twin-Blade Mulcher is available as a push mower with recoil starter, and self-propelled with recoil or electric key start.

Look in the Yellow Pages for t Jacobsen Dealer nearest you.

The Jacobsen Twin-Blade Mulcher—quick & easy.

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avis. Various February courses spon-red by UC Davis Extension (on mpus): pruning, plant damagers, her-ceous flower garden. Enrollment nited; for details, call UCD Exten-on at (916) 752-0880.

n Mateo. February 5. Floral design ow featuring Jack Daniels sponsored Bay Ocean district, California Gar-n Clubs, San Mateo College Theater 1:30. Tickets $5.50. Telephone (415) 5-5063.

n Francisco. February 5 and 6. Pacific ultry Breeders' Association show in hibit Building 1, Cow Palace. Hours: to 4. Admission: $1; ages 6 through , 50 cents; under 6, free.

n Francisco. February 5 and 12. uning demonstrations by San Fran-sco branch, American Fuchsia Society. ace: Strybing Arboretum - *Sunset agazine* Demonstration Home Gar-ns, Golden Gate Park, Ninth Ave. and ncoln Way. Hours: 1 to 3. Free.

n Rafael. February 6. Annual fuchsia uning demonstration by Marin County anch, American Fuchsia Society. ace: West End Nursery, 1938 Fifth e. Hours: 1 to 3. Free.

n Jose. February 9. Environmental rticulture conference by University California Cooperative Extension and ners. Place: Hyatt House, 1740 N. rst St. Hours: 9 to 3:30. For tickets 8 advance sale, $10 at door), send eck to Environmental Hort Confer-ce, Box 3202, San Jose 95156.

n Francisco. February 18 through 27. Vorld of Plants and Crafts" at the Cow lace. Hours: noon to 10 P.M. daily ex-pt to 8 P.M. on closing day. Admis-n: $2.50; ages 16 and under, $1.50.

reka. February 19 and 20. Humboldt ultry Fanciers' Association show. ace: Redwood Acres Fairgrounds, 50 Harris St. Hours: 8 to 4:30 Satur-y; 9 to 2:30 Sunday. Free.

n Francisco. February 19 and 20. chid show and plant sale by San Fran-co Orchid Society. Place: Hall of owers, Golden Gate Park. Hours: 10 6 Saturday; 10 to 4 Sunday. Dona-n: $1; children under 12, 50 cents.

odesto. February 26 and 27. Seminar bees and beekeeping by UC Davis Ex-nsion at Modesto Junior College. urs: 9 to 5. Fee: $40. Call (916) 2-0880. □

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America's Master Gardener, Jerry Baker, says: "I recommend ***Sof'n-soil*** to help every blooming thing grow better."

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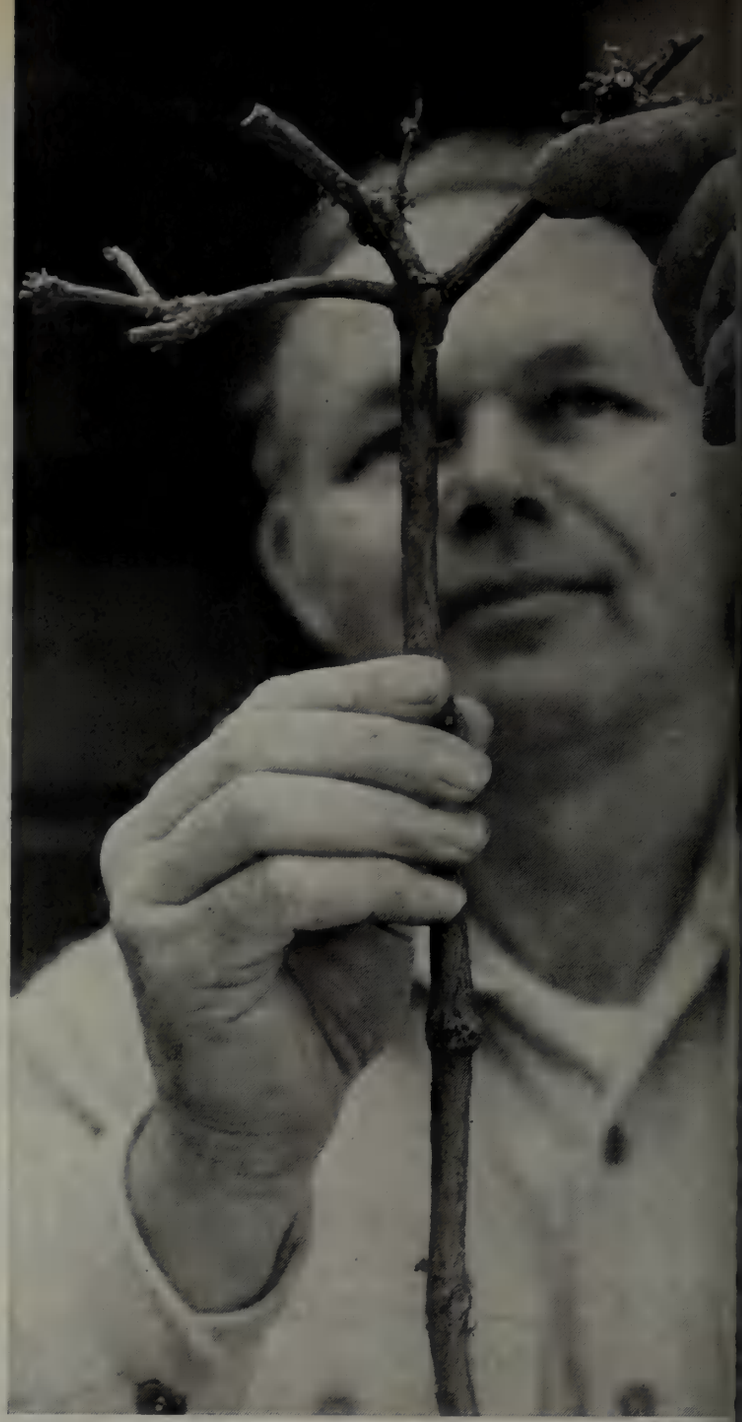
Before. *Standard fuchsia is ragged, has sucker growth on trunk that threatens to turn it into a bush if not cut off*



JOHN F. MARRIC

After. *Leaves, suckers, and all nonessential branch have already been cut away. Only skeleton remai*

Giving fuchsias a fresh start

Here's an efficient way of pruning tops and roots. Now's the time

Grooming, pruning, and repotting fuc sias is an important job you can do no It gives plants a fresh start for spri and helps them bloom profusely throug out the summer. We asked Mr. and M John Rehbock of Belmont, California, show us the efficient way they do it.

Begin by clearing a work area on a tal about 3 feet high. A small lazy sus can make your job go easier and fast since it enables you to rotate the pott fuchsia as you prune it. The one p tured at top right was custom made f the Rehbocks, but you can buy a plas one that will support more than pounds for about $4.

Techniques for cutting back basket a standard fuchsias are similar. Wat lightly a day ahead. Set the potted pla on the lazy susan and clip evenly all t way around it. With sharp shears, pru

Basket fuchsia *is dense with leaves, still blooming in January. Pruning as at right will improve next season's growth*

ches to about the inside edge of the clipping each as far from the nearest as the branch is thick (for a ¼-inch ch, cut ¼ inch from a node).

general rule, cut out branches that others or stick up. Work for the n-wheel effect shown at bottom . Strip off leaves and, for standards, runk growth. Wearing a coarse , strip loose bark off the plant to mites a place to hide.

you're ready to root-prune. To de-potting easier, the Rehbocks use me-made tool called a persuader vn above at right). You can make by screwing a 5-inch lag bolt into piece of wood at least 1½ inches . As you set the pot's drain hole it, the bolt pushes on the piece roken pot (pot shard) inside and s the plant up out of the pot.

ing the plant by the trunk, work the dirt away from the rootball and off coarse roots that hang from the . Leave the fine roots.

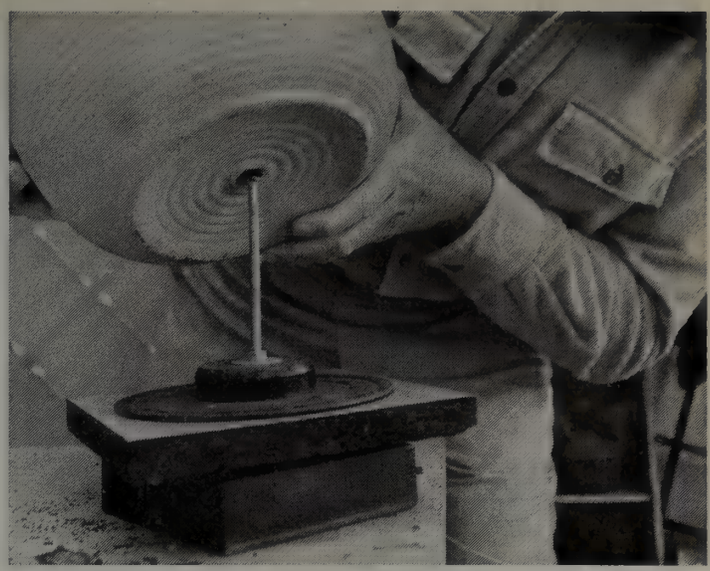
n out the pot with a stiff wire brush e repotting.

his point the Rehbocks put a new over the drain hole, line the pot pine needles, and repot the pruned in a mixture of ⅓ steer manure, otting soil, and ⅓ ground redwood The combination drains well and moisture without becoming sodden sias don't do well in soggy soil).

np the pot's side to settle soil, then . You can treat for transplant shock vitamin B_1. □

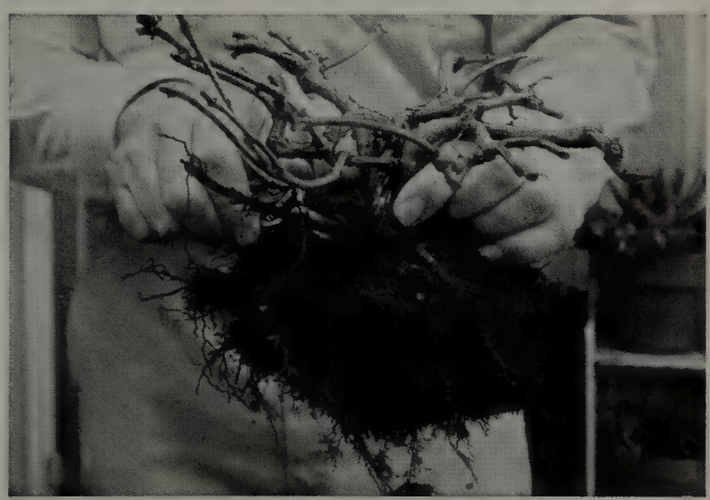
Use "persuader" on potbound plants

Really just a long bolt, it catches the shard inside the drainage hole and forces the plant up



Prune roots as you'd trim a beard

Use shears to nip off ragged edges, make a compact rootball half its former size. Top has already been pruned back.

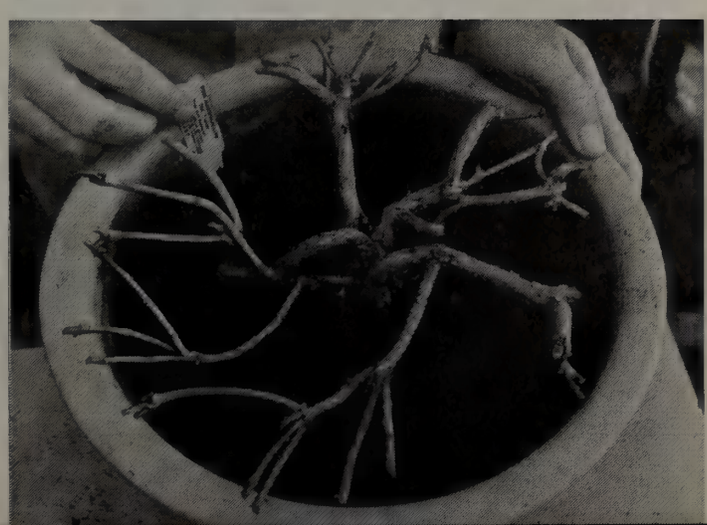


Drainage layer (an option)

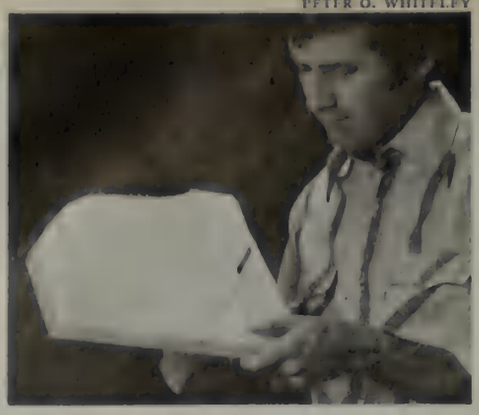
The Rehbocks put a ½-inch layer of pine needles over the shard at pot's bottom

. . . and you're finished

Add plant mix, lightly tamp in around plant. Pruned fuchsia should resemble stylized wagon wheel



PETER O. WHITELEY



Styrene circle, *cut out with a hacksaw blade, supports saucer, lets air circulate. Cutout fits between rug and saucer*

Rough redwood stand *holds plant 3 feet above carpet. Finished redwood could be stained or painted*

Use floral tape *to adhere four pieces of 1-inch dowel to bottom of ceramic saucer*

Wrought-iron *pot holder ($5) is adjustable, holds saucers up to 12½ inches in diameter*

Put some air under your house plant pots. They will thank you

Everyone almost naturally puts a sauc of some kind under an indoor plant co tainer to keep moisture and runoff fro staining floors, furniture, or carpets. B even the saucer can do some damag Clay saucers are porous and let moistu ooze through them; with nonporo saucers (plastic or ceramic) moistu may condense on the outside.

The way to protect vulnerable surfac is to put air between them and t saucers. Here we show and list ways do this. Look for the devices at lar import stores, garden shops, nurseries, ceramic shops. Prices are approximate

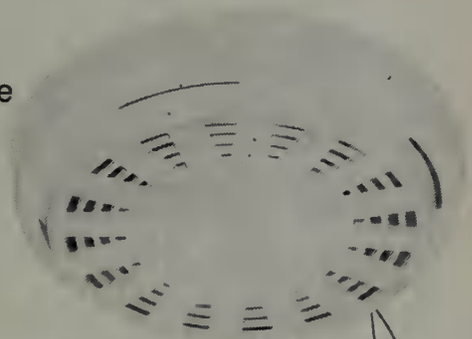
Just set the plant and its saucer on a

Why you should pay $28.99 for something that could wake you up in the middle of the night.

Because now Sears Early One™ Fire Detector can save you $6. Because later who knows what else it could save you?

You might buy the Sears Early One because you can install it easily with just two screws.

Because it's operated by one low-cost alkaline battery (included), so you can put it anywhere in your house. Because it's UL listed. And because right now it's on sale. Regularly $34.99. Now just $28.99. Save $6.



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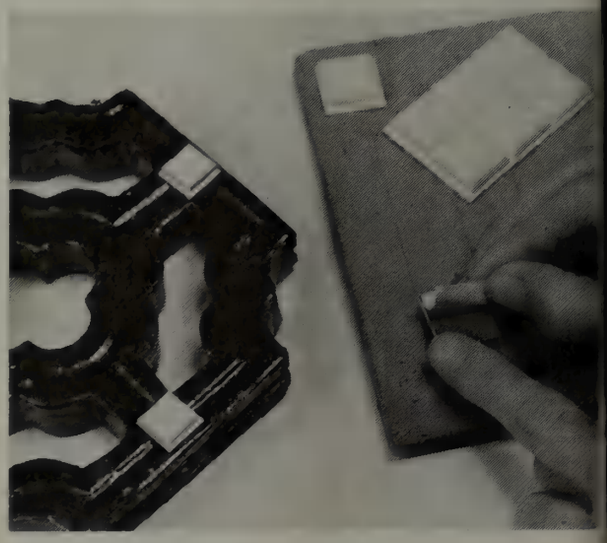
PETER O. WHITLEY

Six-sided stand *from Japan; $5. He's fitting plastic gasket to top of stand just to protect its finish*



Self-sticking pads *adhere to underside of tiles. Remove liner from backing and press in place. Available in several colors at hardware stores for about 60 cents*

of these: carved wood trivets from India (round, 7 and 12-inch diameter), about $6; tile and wood trivets from Mexico and Japan (6-inch square, $1.20; 6 by 10-inch rectangle, $3.70; 8¾-inch square, $1.75); wood chopping block from Thailand (round, 9-inch diameter), $4; one-piece ceramic containers, under $5; brown plastic bonsai trays from Japan (7½ by 10½ inches), $3; unfinished lamp bases (look for seconds in a pottery shop); brass container from India (5 by 6 by 6 inches), $7.50; woven basket (10-inch diameter, other sizes available), $3.75.

Devices without legs

To create air space underneath, you r put legs or pads under these plant rai carved and fretted wood trivets f India in various shapes, 55 cents e wood and cork coasters from Japa inch diameter), under $2; ceramic c ers from Japan (3-inch diameter) cents; redwood rounds, price va wood plaque (3-inch square), 60 c pressed cork block, price varies.

More ways to protect surfaces

Put circles cut from bubble wrap– clear air-bubble plastic used by de

Plastic turntable, *½ inch high, keeps plants off tabletop and rotates for even light distribution. In different sizes and colors; $5*

l has rim and recessed bottom; 80 cents. If you can't find a saucer to fit, line the basket with aluminum foil

t stores for packaging breakable ob-
s—under saucers.

dowels in ½-inch lengths for short-
rugs, 1-inch lengths for shag; attach
to a saucer, using floral tape or
ble-sided self-sticking pads.

cast-iron trivet legs in plastic cups
revent staining.

plastic feet with needlelike projec-
s that penetrate rugs and minimize
sure marks.

¼-inch lath into two lengths for
n container bottom; attach with
al tape. □

Let it be.

For membership information about The National Trust for Historic Preservation write to James Biddle, President, 740 Jackson Place, N.W., Washington, D.C. 20006

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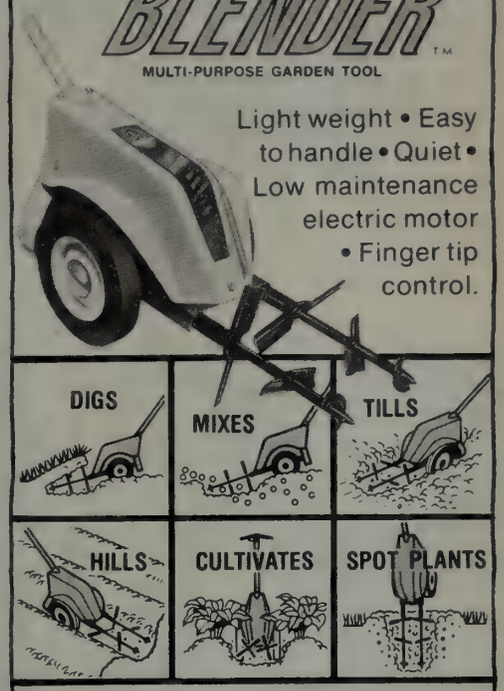

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The most practical garden tool ever offered!

Ariens 2 HP Cultivator

Garden tillers perform well in initial ground preparation, but usually offer little help where cultivation in close quarters is required. That's now a thing of the past. ■ Ariens new 2 HP Cultivator is compact, lightweight, easy to maneuver and relatively inexpensive. It will eliminate the tedious chores of hand weeding and hoeing. In just a couple of passes, it will give the garden a loose, porous texture and completely work in fertilizer and organic matter that's been placed on top. Cultivating between close rows of established flowers and vegetables is easily accomplished. Aerating and weed control is made easy. ■ The Cultivator's folding handlebars and light weight make it easy to carry, transport and store. Write for details today.

Please send me details on the Ariens 2 HP Cultivator.

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An Oregon gardener
adds a room

New upstairs is conservatory. New downstairs is work center

Open staircase *connects upper and lower levels. Open ground under stairs is plant nursery*

DON NOR

View *is toward west from new walkway under extended eaves. Walk joins greenhouse, kitchen*

In upper story, *succulents in baskets and pots thrive with light from three sides and overhead*

Shelves *on what was exterior house wall hold supplies. Potting bench has sink*

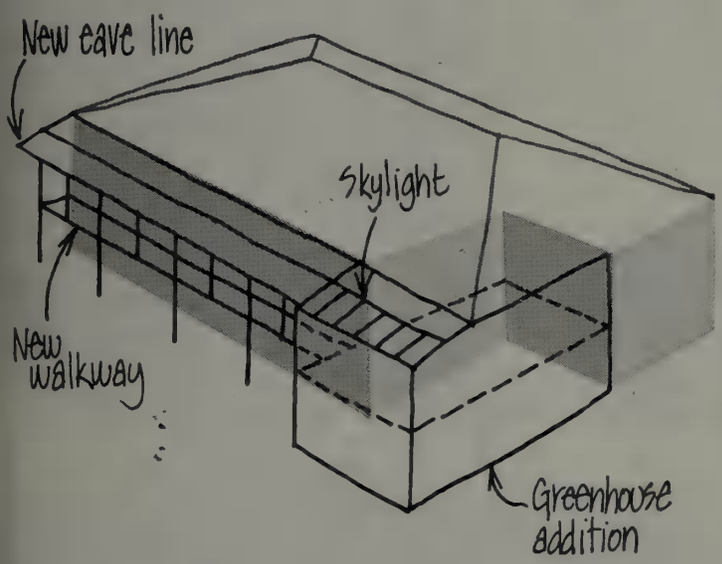
This airy addition in Eugene functions as a working greenhouse for a serious gardener. And it does more.

The addition takes advantage of the sloping lot on which the house is built. You enter what looks like a one-story house from the street, but at the rear it is two stories tall.

The upper story of the addition is a green leafy conservatory which opens to the master bedroom with double glass doors and can also be seen through a glass door from the living room. It provides superb showplace for Joan Tayl plants and the pots she designs makes to fit each arrangement.

The lower level is an efficient work c ter with easy access to the outdoor den. The big, bright space under open staircase is exposed earth, us as a hospital for ailing plants, a pro gating bed, or a plant storeroom. Si the floor here is soil, serious water sp can do no harm.

o-story addition *divides into top-floor display and ground-floor working d potting area that's just two steps away from the back garden*



Remodeling *included greenhouse addition, widening eaves, adding new second-story walkway*

ong the work center's wall, a potting ich holds a sink, with open shelves ove it for pot storage, small supplies, d succulent cuttings that need drying- time. Under the top shelf is a growth ht; plants move here when they need ensive care. Baseboard heating plugs under the bench; large refuse cans ld soil, sand, peat moss, and fertilizer. ree louvers above each 16-inch-wide ndow in the upper section open for ntilation. On the lower level, louvers are at the bottom of glass panels; you can see them in the picture above.

Extending and widening the existing eaves of the house gave the greenhouse extra space and also shades the big living room window (which faces west across the Willamette Valley). An open second-story walkway under the new eaves connects greenhouse with the kitchen, passing in front of the living room window.

Designer was Lili Cho for Mr. and Mrs. Donald Taylor. □

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Presenting the largest indoor plant show in the West.

Bill Graham presents The World of Plants. Joyously.

Starting February 18th and continuing through February 27th, the Cow Palace will be taken over by the largest group of green thumbs and green plants and crafts ever to assemble under one roof.

And you're invited. To see. To buy. To learn (plant specialists will talk on everything from Solar Window Gardens to Fertilizing). All in all, you're invited to let your thumbs itch. Green.

Feb. 18th – Feb. 27th. 11 A.M. daily. Cow Palace, San Francisco. $2.50 adults. $1.50 under 16. "The Great Outdoors Brought In" by Bill Graham. A show dedicated to the proposition that our world should be greener, everyday. So save this ad to remind yourself.

The World of Plants

Fruit crosses you can grow ... cherry-plums, plum-apricots, a ne pear-apple, other surprises

There are major surprises among all the new deciduous fruit trees at nurseries this year.

One California fruit-tree hybridizer has come up with some startling crosses that have never been available to home gardeners before—plums crossed with cherries, apricots with plums, and pears with apples. There are also some new apricot, nectarine, peach, and plum varieties that will grow well without much winter chill —good for mild climates. And there's an expanded selection of genetic dwarf (miniature hybrid) fruit trees that grow to about a fourth the size of standard fruit trees. (Best of all, these genetic dwarfs grow on standard rootstocks, not special dwarfing rootstocks which have many drawbacks.)

Here are some of the new varieties. You'll have to pay premium prices for them, but they should be worth it.

New crosses

'Delight Cherry Plum,' 'Sprite Cherry Plum.' These are cherry-plum crosses with plum flavor and appearance. Fruit is dark blue, firm, sweet, and juicy, the size of a 50-cent piece; it remains tasty for a long time after ripening and picking. Ripens in midsummer, 'Delight' about a week earlier than 'Sprite.'

'Plum Parfait.' Looks and tastes like 'Blenheim' apricot, but also has the tanginess of a plum; flesh has red-orange marbling from plum parentage. Ripens late spring.

'20th Century Pear Apple.' Apple shape but pear coloration. At first picking, fruit is crisp, but texture becomes more pear-like as it ages. Sweet and juicy. Ripens in August.

Genetic dwarfs

'Aprigold' apricot. A self-pollinating variety with firm, full-sized, golden fruit. Late spring ripening. 'Blenheim' type.

'Garden Bing' cherry. A sweet self-fertile variety with flavorful, dark red fruit. Trees grow slowly, but produce at an early age. Mature spread is 2 to 3 feet. Ripens in early summer.

'Garden Delicious' apple. Midsummer ripening variety with 'Delicious' flavor. Bears heavily at an early age. Tree is self-fertile, slow growing.

'Garden Gold' and 'Garden Sun' peaches. Both are medium-sized freestone types with tasty yellow flesh, red exter blush. They'll flower and fruit with o low amount of winter chill. 'Garden S ripens in early summer, 'Garden Go in midsummer.

Nectarines. There are four new 'G Mine' types with sweet, yellow flesh. are self-pollinating freestones with l winter-chill requirements. Ripening or is 'Garden King,' early summer; 'Gar Delight' and 'Garden Silver,' midsu mer; 'Garden Beauty' (spectacular r dish pink flowers), late summer.

Other new varieties

'All in 1' almond. A self-fertile vari with exceptionally heavy crop prod tion. Nuts are sweet and soft-shelled.

Apricots. 'Snowball' is a unique, ea maturing white-fleshed variety with g flavor, pink blush on ripe fruit. 'Sou ern Giant' is self-fertile, low chill-req ing variety good for Southern Califor and the low desert. Fruit is large, g quality. Ripens in mid-May.

'Criterion' apple. An especially sw eating apple for areas with good amo of winter chilling. Fruit is waxy yell with pink blush. Mid-season ripeni Keeps very well.

Nectarines. 'Desert Dawn' is tasty, low-fleshed variety that ripens in spring or early summer. Good warmer winter areas. 'Lania' is a sw fragrant, white-fleshed variety w showy, double red flowers; late J ripening. 'Snow Queen' is rich-flavor white-fleshed freestone with rosy sk ripens in mid-June.

Peaches. 'Early Glory' is one of earliest, good-quality peaches for ho gardens. Good flavor, production, a size. Spring ripening. Moderate chilli 'Fantastic Elberta' is a sweet 'Fay berta' type with spectacular, light p double flowers and yellow flesh. M summer ripening. Medium to low ch ing requirements. 'Red Baron' has sho double red flowers first, then hig flavorful yellow-fleshed fruit. Mid-J ripening. Low chilling requireme 'Tropi-berta' is a large, self-fertile fr stone with full, sweet flavor. Early mid-August ripening. Low chilling quirement.

'Red Splendor' plum. Large, red, flav ful variety. Very early ripening. Low w ter-chill requirement. Bronze foliage.

Model EX-2K Stereo Music System with Built-In Cassette Player/Recorder © 1979 Sony Corporation of America. SONY is a trademark of Sony Corporation.

If you're about to buy your first stereo, you're probably considering a compact. Partly because you don't know beans about stereos, and partly because what little you know is matched only by how little you want to spend. So we told our engineers to make a new compact that gives the beginners what the experts ask for. At a price that will make everyone happy. Here it is: the EX-2K.

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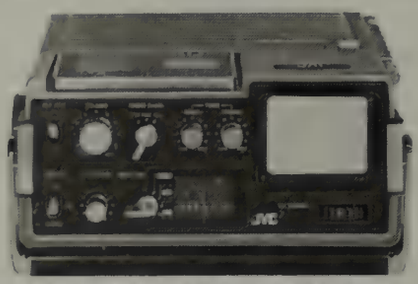
Could it have been divine inspiration? **JVC**



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Camellia shows i February, March

Camellia aficionados can see old and n varieties at their peak in shows throu out California this month and next.

Redwood City. February 12 and Peninsula Camellia Society; cospons Parks and Recreation Departme Place: Veterans Memorial Buildi 1455 Madison Ave. Hours: 2 to 8 Saturday; 11 to 5 Sunday.

San Diego. February 12 and 13. S Diego Camellia Society. Place: Conf ence Building, Balboa Park. Hours: 1 5 Saturday; 10 to 5 Sunday.

Arcadia. February 19 and 20. Tem City Camellia Society. Place: Los geles State and County Arboretum, N. Baldwin Ave. Hours: 1 to 5 Saturd 10 to 5 Sunday.

San Jose. February 19 and 20. Came Society of Santa Clara County. Pla Jay McCabe Hall, 145 W. San Car Hours: 3 to 6 Saturday; 11 to 5 Sund

Moraga. February 26 and 27. D Camellia Society. Place: Campoli High School, 300 Moraga Rd. Ho 2:30 to 6 Saturday; 10 to 4:30 Sunda

Pomona. February 26 and 27. Pom Valley Camellia Society. Place: F Federal Savings and Loan, 399 N. Ga Ave. Hours: 1 to 6 Saturday; 10 to 5 Sunday.

Sacramento. March 5 and 6. Came Society of Sacramento. Place: Comm nity Convention Center, 1100 14th Hours: 3 to 9 Saturday; 10 to 6 Sund

Fresno. March 6. Central Califor Camellia Society. Place: Cafete Fresno City College, 1100 Weldon A Hours: 1 to 6.

Concord. March 12 and 13. North California Camellia Society. Place: S Valley Shopping Center, Contra Co Blvd. and Willow Pass Rd. Hours: 10 6 Saturday; 10 to 5 Sunday.

La Canada. March 12 and 13. South California Camellia Council. Pla Descanso Gardens, 1418 Desca Drive. Hours: 1 to 6 Saturday; 10 5:30 Sunday.

Modesto. March 19 and 20. Came Society of Modesto. Place: Adminis tion Building, Gallo Winery, 600 Yo mite Blvd. Hours: 2 to 6 Saturday; no to 6 Sunday.

Santa Rosa. March 26 and 27. Sono County Camellia Society. Place: Sa Rosa Junior College, 1501 Mendoc Ave. Hours: 2 to 6 Saturday; 10 t Sunday.

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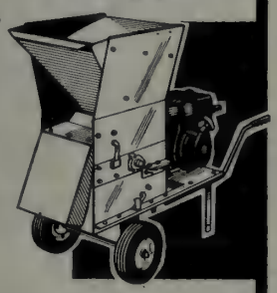

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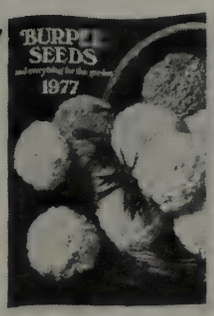

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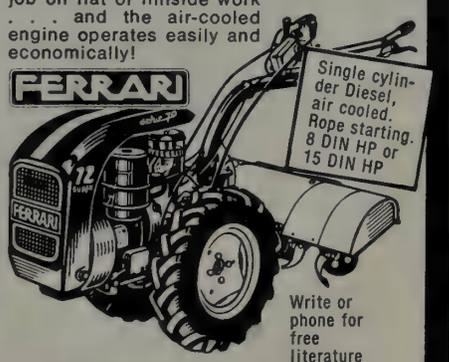

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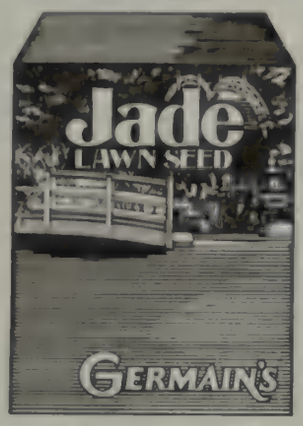

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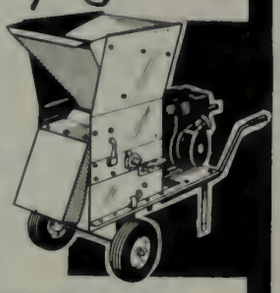

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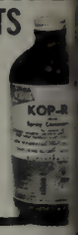

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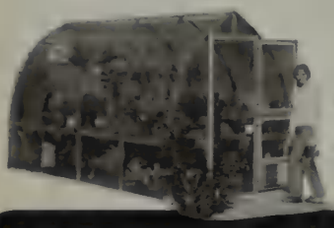

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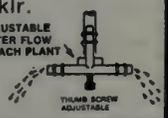

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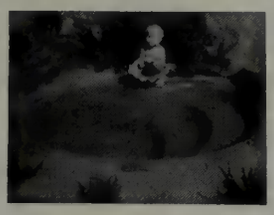

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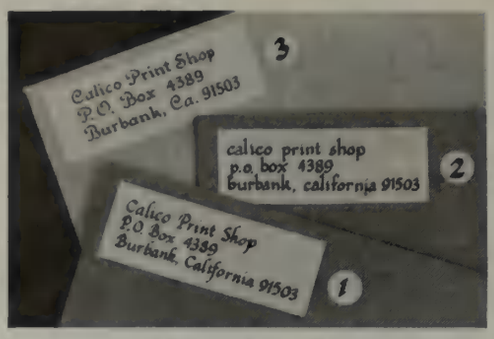
From one of the West's oldest leather shops. They wear as comfortable as they look. Crafted from genuine glove tanned suede leather, laced and stitched for strength and style, with built-in cushioned insoles. Style No. 482, available in Sand, Brown, Smooth White, Chocolate, Blue Denim and Black. Sizes 4–10, including ½ sizes. $9.50, plus $1.50 ship. & post. Calif. res. add 6% sales tax. Red's Leather Works, Dept. S-2, Knott's Berry Farm, Buena Park, CA 90620.



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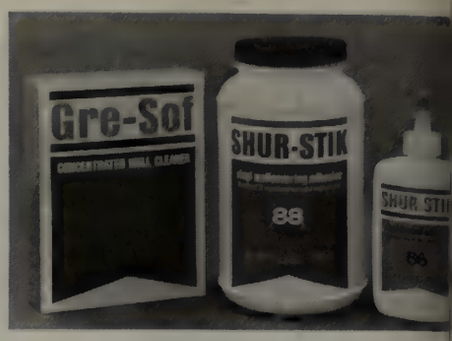

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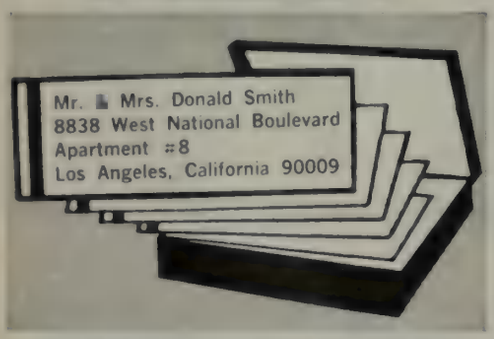

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Your name and address beautifully printed in black print on our finest quality white gummed labels, with a rich decorative gold strip. Use them on stationery, books, checks, records, etc. Four lines O.K. Each set of a thousand Gold Strip Labels only $1.50 plus 20¢ postage and handling. Your satisfaction is guaranteed or we cheerfully refund your money. A most thoughtful gift. W. Yarbrough, 5768 Venice Boulevard, Department SS-GS, Los Angeles, California 90019.

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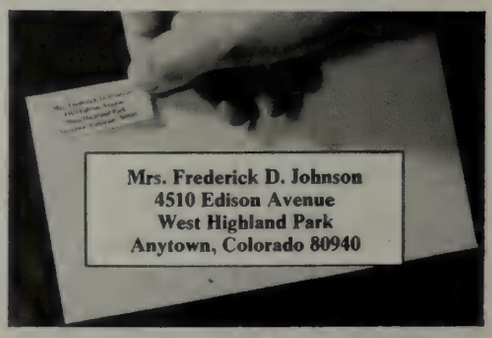

1000 Return Address Labels—$1

Quick and easy way to put your name and return address on letters, records, books, etc. Any name, address and zip code up to four lines beautifully printed in black on crisp white gummed label paper, 1¾" long. Free decorative box for purse or desk. Set of 1000 labels, $1 plus 20¢ postage & handling. Don't know your zip code? We'll look it up for you. Money back if you are not pleased. Walter Drake, 3072 Drake Building, Colorado Springs, Colo. 80940.

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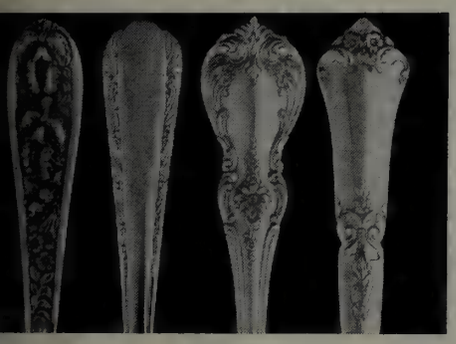

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Red laceleaf maple, *probably most popular, is not the easiest to grow in tough climates*

Seedling Japanese maple *has coarser foliage, withstands heat and wind*

Should you try a Japanese maple?

Japanese maples (*Acer palmatum* and its many varieties) are a particular glory of Northwest gardens. Can they similarly glorify gardens in California where it's warmer and drier? Under some circumstances, they can. In nurseries this month you'll find the widest choice of balled-and-burlapped trees from the Northwest and trees grown in cans. By buying now you'll have the pleasure of watching the tiny, colorful leaves unfurl in spring.

These maples do notably well in coastal northern California, if not directly exposed to constant or salt winds. Seedlings—plants that grow from seeds and have only slightly cut leaves—will take full sun here. The finer the dissection of the leaves, the more essential it is to provide some shade and protection from the wind. Leaves burn at the edges, and cutleaf kinds are all edge.

Heat alone is not the problem. Sacramento, Chico, and other valley towns that offer good soil and water and protection by established shade trees grow fine Japanese maples as understories. Farther south, Fresno and Bakersfield gardeners have to work harder to avoid wind and salt burn, but they manage.

In Southern California, both plain and cut-leaf Japanese maples tend to look shriveled after a few hot spells—as they do in warm, dry, windy climates anywhere. Nurserymen there seldom attempt to sell these trees except in spring and earliest summer.

Here are some ways in which skilled Southern California gardeners have squeezed better performance from their maples; their experiences should be helpful to gardeners everywhere.

Selecting varieties. Except in ideal conditions, seedlings or broad-leafed varieties stand up better than finely cut kinds. Green-leaf kinds do better than red.

Planting. Under tall trees and out of the wind is best. Or plant in a container (confinement limits size—possibly an advantage). Display spring or fall foliage color during cool weather, bare-branching pattern in winter. Remove container to shade in hottest summer weather.

Providing care. See that drainage is good; be sure plants never go dry. One notably successful gardener in the San Gabriel Valley feeds acid plant food to his tubbed maples all summer; in early, mid, and late autumn, he lightly sprinkles aluminum sulfate over the soil. He reports spectacular fall color—something even northern California gardeners do not always get.

Seedlings, cut-leaf, and red-leaf kinds are easy to find in most nurseries. If you would like to experiment, send 75 cents to the Greer Gardens, 1280 Goodpasture Island Road, Eugene, Ore. 97401, for listings of over 80 varieties. □

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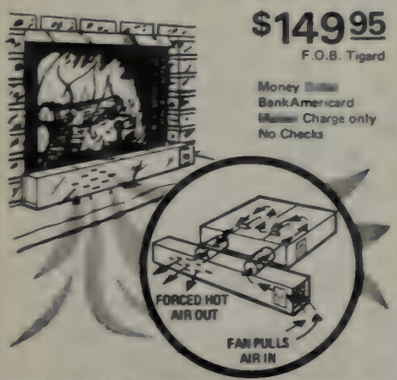

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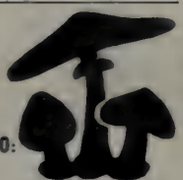

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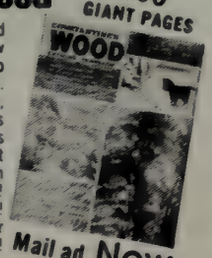

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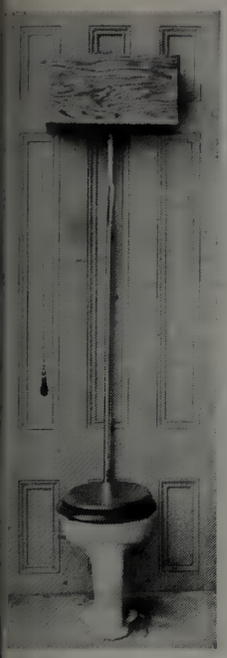

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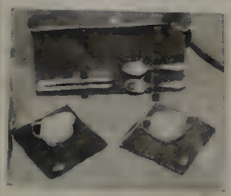

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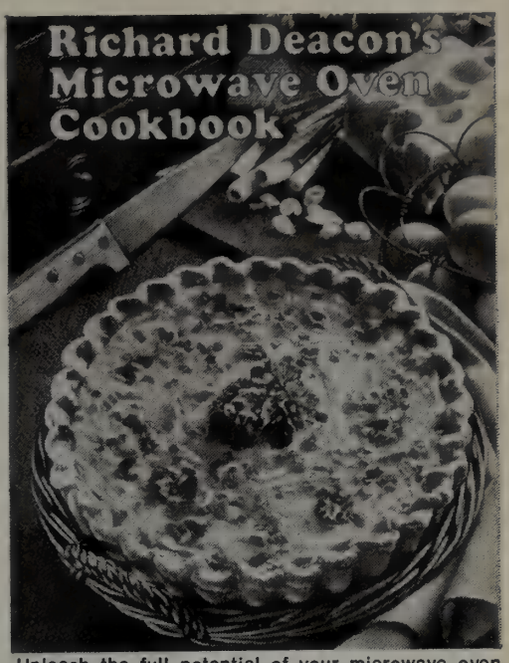

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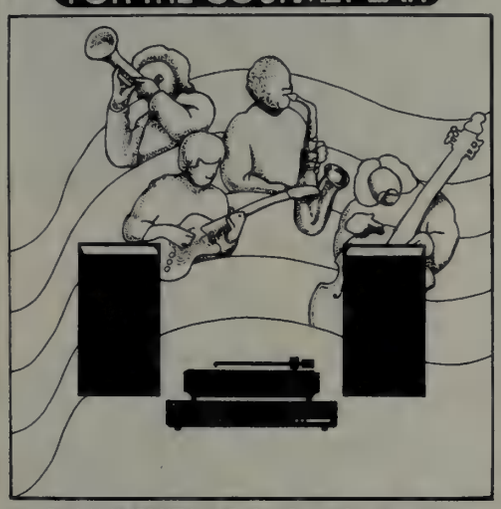

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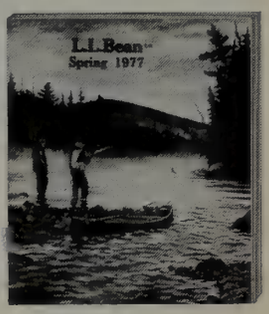

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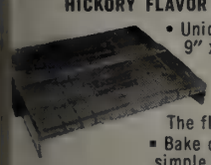

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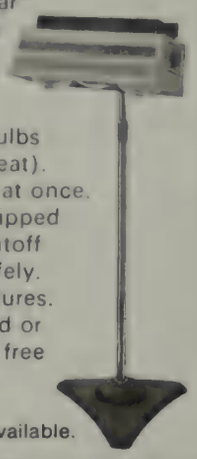

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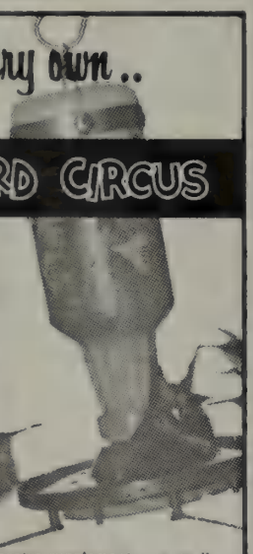

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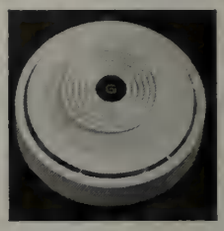

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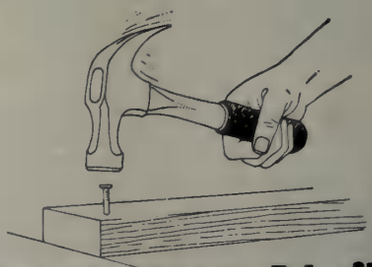

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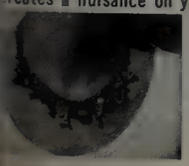

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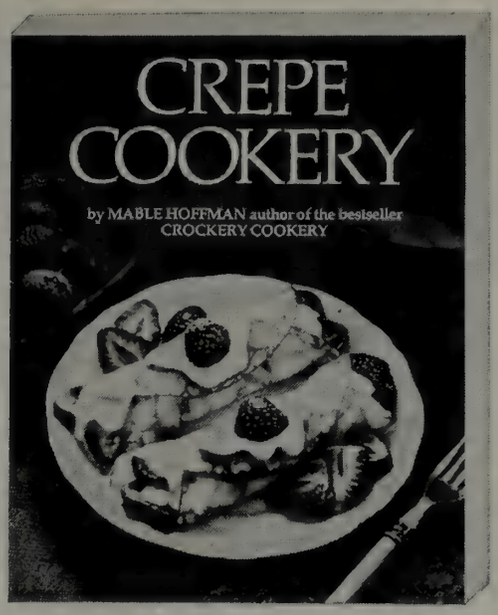

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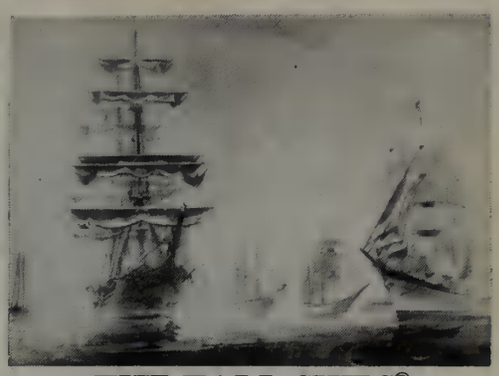

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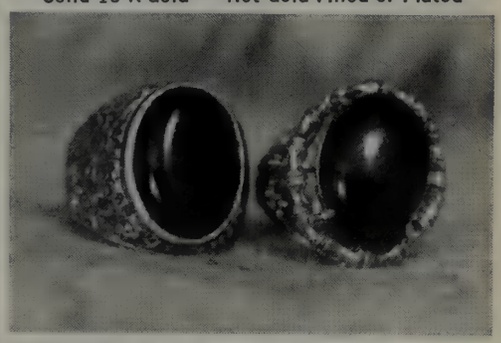

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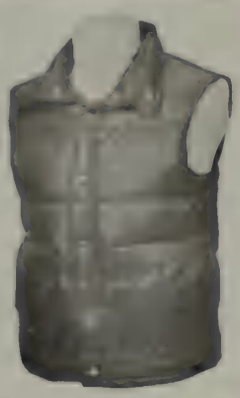

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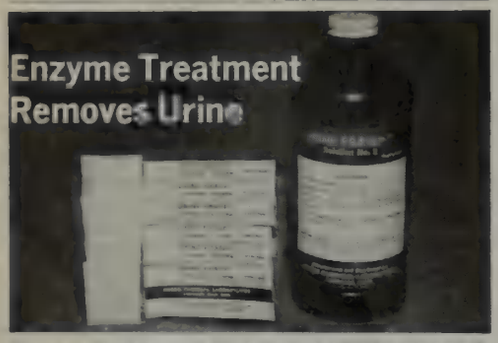

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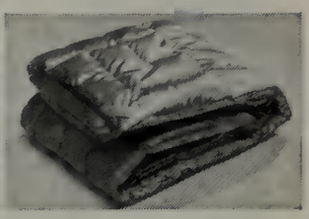

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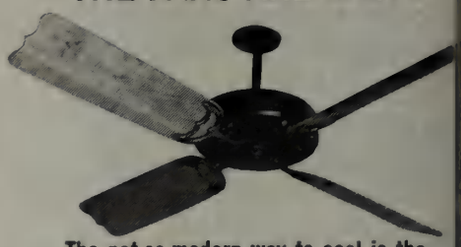

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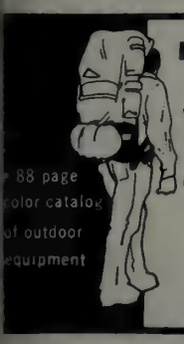

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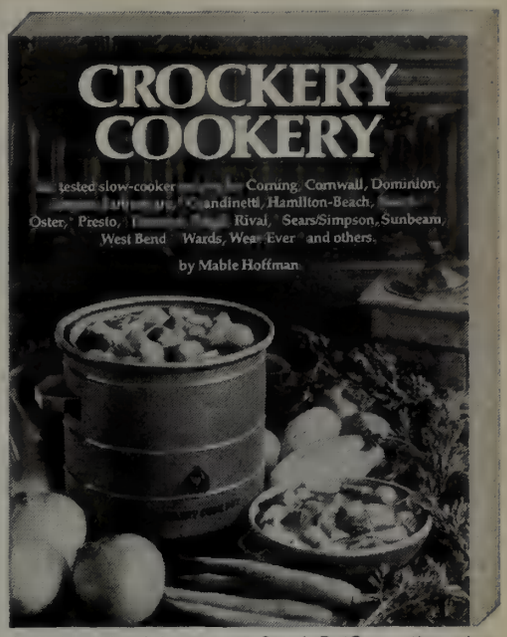

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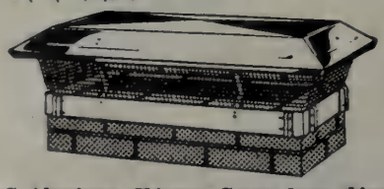

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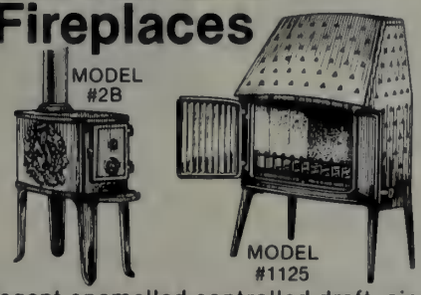

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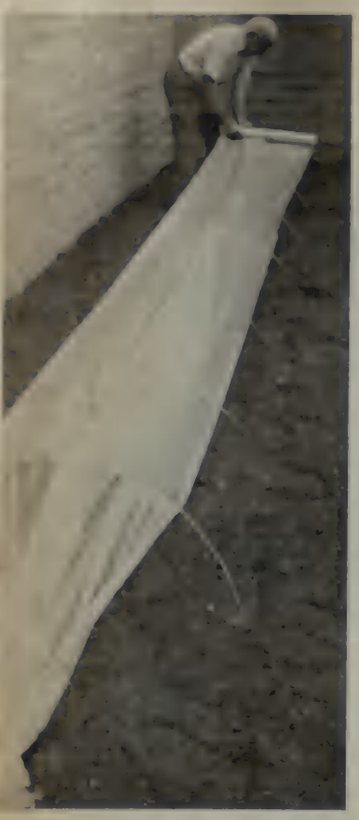


Tie end *of folded plastic to stake, stretch over hoops, tie down and unfold*

Daytime: *Pull up plastic between wire and cord to let in sun, permit watering. At night (or in cold): Pull down plastic to keep in soil heat*

DARROW M. W.

Call it a *cloche*... or a portable plastic plant speeder-upper

The device you see above is a polyethylene tunnel cloche. Its name comes from the French *cloche* (klohsh), a bell or bell jar. With it you can grow winter lettuce in all except the coldest climates, or speed the ripening of strawberries, or shelter perennials of dubious hardiness.

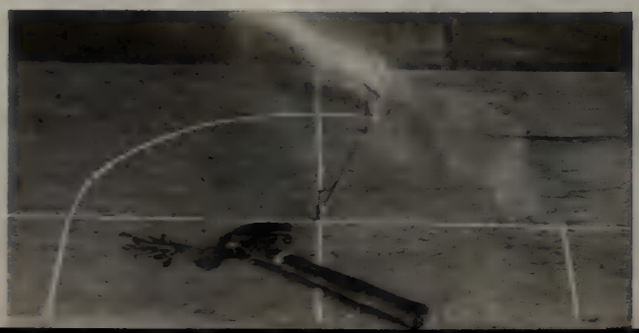
You can also speed up your spring garden by starting plants early inside the cloche. Sheet polyethylene, stretched over wire hoops and held in place with cord, makes the enclosure.

The principle is simple: During the day sun warms the soil, either through the 4-mil plastic or on mild days directly, with plastic scrunched up on top between cords and hoops. At night or in cold weather the plastic, pulled down to the ground, prevents loss of heat by radiation or by chilling winds.

Make the hoops of 8-gauge galvanized wire on a jig, as shown below. For a cloche about 2 feet wide, you'll need (to 70 inches of wire per hoop; set hoo 3 feet apart. Stretch 4-foot-wide plas the entire length. Then tie cord (nylc polypropylene, or other rot-proof m terial) over the plastic and tie snugly wire loops at soil level.

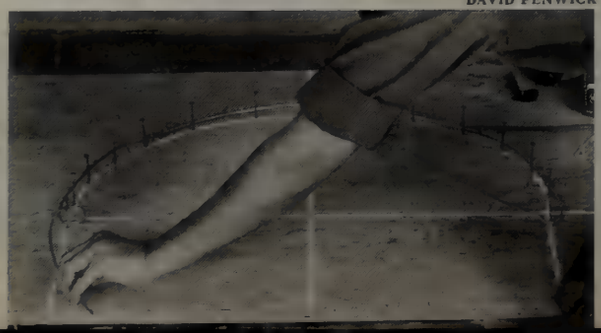
Costs will vary slightly, but two 20-foo ers like the one above can be made about 2 hours for less than $10—wi 10 feet of plastic left over.

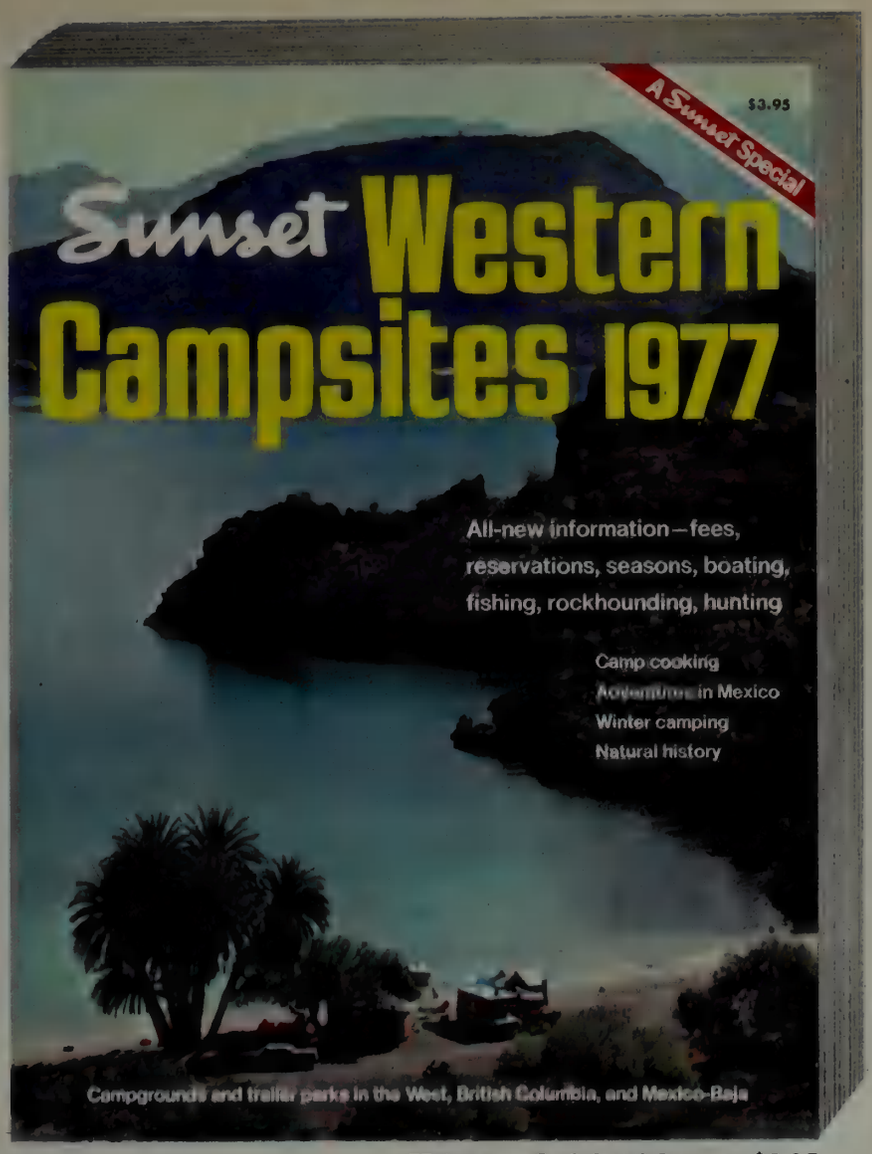
With a 12-inch string, *mark a 24-inch semicircle on ¾-inch plywood. Drive in nails every 3 inches*



Center wire *above top nail, then bend to shape, making a loop around each of lowest nails*

DAVID FENWICK





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LETTER FROM *Sunset*

Coping with the dry summer

The West's water situation could improve somewhat with heavy rain: late winter and spring, but many of us are probably in for another l and water-short summer. Its severity will depend on local factors, so of them beyond our immediate control. But there is much we can d beginning right now—in and around the home to preserve water s plies and to make a dry summer much less disruptive.

We all know the facts of the shortage, which California has felt the m so far. Reserves were already badly depleted by the widespread 19 1976 drought; and by late December, well into what should be the season of 1976-1977, new rain or snowfall was below that of the pr ous year—the driest on record. Much of California may soon be fac back-to-back winters of outright drought. There are signs that the sh age might even extend into the usually water-abundant Northw Westwide, it will take much more than just a year's normal rainfal bring us back to normal capacity.

The consequence: More communities may have to follow last ye pattern of use restrictions, bans on new water hookups, and rationin voluntary or mandatory. Utilities are concerned about summer bro outs due to reduced hydroelectric power. In some areas, salt wate creeping in to replace depleted fresh ground water.

But as we explained in a pre-drought *Letter from Sunset* early in 19 signs of potential water shortage have been in sight for some tim the generally arid, dry-summer West. And instead of just worrying, have been learning to cope.

Sunset has felt a special responsibility to help in this effort, develop and sharing new knowledge about comfortable but water-sensible liv In 1976 we gave particular attention to outdoor uses that consume much water in summer; feature articles covered strategies on fruga with garden water, drip irrigation, alternatives to lawns, and attrac but drought-resistant trees and plants. Close to 450,000 reprints of th articles have been ordered by water utilities and other concerned org zations.

If 1977 provides bigger challenges, we hope our research will cou with new ways to meet them. Much has been learned from last ye dry summer. We are planning a major water-conservation laborat garden as an addition to our other Western demonstration gard And we are investigating new ways to realize year-round savings indoor water use.

The simplest steps are possible right now: planning spring planting w water in mind, stopping leaks, letting nothing out of the tap that don't really need. Successful water conservation may lend itself m readily to individual action than do many other large-scale envir mental problems. We can save water—and still continue to enjoy delight and comfort that the Western environment has given us.

WINDOW ON THE WEST: *Missing snow*

California Cooperative Snow Surveys, a state agency, maintains a series of high Sierra stations with 2-foot markers to measure the snow pack. On December 14, 22-foot-tall Station 76 at 6,500-foot Lake Fordyce in remote Nevada County had had no snow at its base; a Pacific Gas and Electric engineer points to the seasonal normal of 32 inches. In much of the West, water is used to produce power. Light snowfall now could lead to energy shortages later in the year.

March 1977

75 cents

Sunset

The Magazine of Western Living

Small is More in Three-Level House in Oregon P. 84

Thrifty Party for a Crowd P. 88

Hawaii Beaches—Lonesome and Beautiful P. 78

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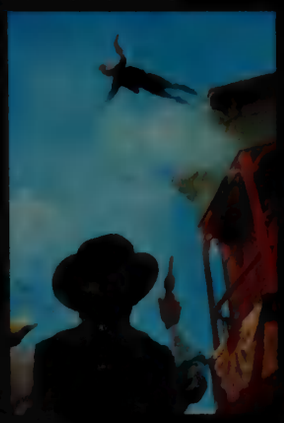

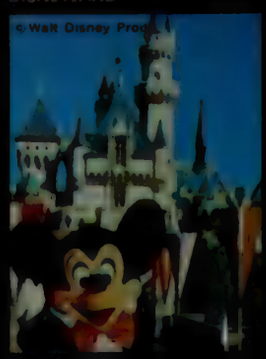

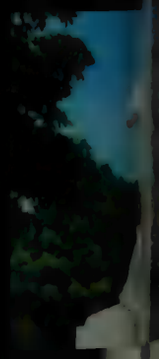

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Sunset* The Magazine of Western Living*
THE PACIFIC MONTHLY*

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Central Edition
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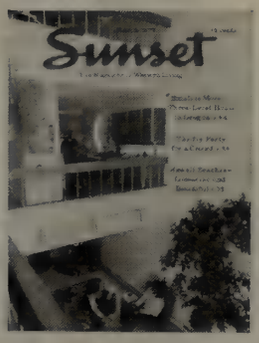

Here's an example of how small can be more. Our cover house is a three-level structure only 25 feet square from outside wall to outside wall, yet it has a remarkable feeling of space. Turn to page 84 to see how it's done. The picture was taken by Glenn Christiansen

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demark Reg. U.S. Pat. Off.

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AIR CANADA

*ITAC—FRM07 †ITACUT

ıfully following *the old methods, volunteers built tructures with willow poles and tule thatching*

Framework *of family dwelling is tall enough for you to stand inside*

JERRY FREDRICK

In the sweathouse *you can sit around an open fire, listen to stories, watch a fish trap being woven from reeds and grasses*

'oint Reyes . . . a walk through an Indian village replica

n the crew of the *Golden Hinde* untered the Coast Miwok Indians in , Sir Francis Drake wrote that he impressed with their strength, hunt- skill, and gentleness. But gradually eaceful Miwok disappeared, victims ıropean settlers and their diseases.

ıy you can see how they lived and ed in a newly completed re-creation Miwok village at Point Reyes nal Seashore. Using authentic ods, tools, and materials, a group of ıteers has built a small village called *Loklo* (Bear Valley).

ort hike takes you there from park quarters. You'll see a complete ok community, including tule- hed dwellings, a dance house, a monial sweathouse, and several aries.

It's a living display. On most weekends you can watch and even join in demonstrations of stone-tool making, food preparation, and basketmaking. In front of the family dwellings, volunteers will show you how to flake obsidian to make a knife or fashion an intricate fish trap. In the sweathouse, you can sit before an open fire and listen to a storyteller just as the Miwok might have done.

These volunteers, from the Miwok Archeological Preserve of Marin, have worked with members of the Dixie School District and the park service to make the village as authentic as possible. The site itself—never an actual village because archeologists didn't want to disturb a true site—was chosen because it could meet the needs of a real village. The willow poles, tule thatching, and

Nuts, acorns, seeds *made up much of the Indians' diet. You can help collect and grind them at the village*

Often an artist is the only answer

Words and photographs can't always clearly explain a concept or procedure. That's when we devise a map or diagram to help.

The unusual three-story house on this month's cover required side-by-side sketches to explain how everything fits together: one to show the placement of rooms on each level, the other to explain how these interior spaces are created from a series of modules stacked together like children's blocks.

Staff artist Jackie Erridge began with a set of floor plans and the architect's own three-dimensional drawing. Then, working with an art director and an editor, she pared everything down to the two interpretations you see on page 85. □

Architect's plans *at hand, artist works on diagrams to help readers find their way around our cover house*

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redwood logs used in the structures w
mostly shaped with stone tools; the
ditional construction took months.

You'll find the village about a mile f
park headquarters off Bear Valley R
at Point Reyes National Seashore,
miles north of San Francisco. There
signed trail from headquarters.

Young scientists show off . . . from San Francisco to Fresno

Each year, hundreds of young scien
get together at science fairs to show
the research projects they've worke
for months. For budding Curies and
steins, the prize is a chance to enter
International Science Fair (to be held
year in Cleveland in May).

But for the visitor to a science fair
reward is a fresh, educational, and
entertaining look at the questions fa
today's (and tomorrow's) researc
The regional fairs are the best—
petitors are from grades 7 to 12 an
have won at local school fairs.

Project topics range from the serio
"Photo motor coordination"—to
amusing—"Can you train an ant?"
you'll probably see an awesome arr
contraptions demonstrating things
concepts such as solar energy collec
the effects of smoking, and how a h
cane happens.

All the fairs are free and are open d
nonjudging hours. Here are the
regional fairs in northern California

San Francisco, March 26 to 30; Califor
Academy of Sciences, Golden Gate Pa
Some 250 exhibits from 10 counties.
Hours: 10 to 5 daily. Admission to
academy: children 12 to 17, 25 cents;
adults, 50 cents.

Fresno, March 30 to April 1; Fresno
Convention Center Exhibit Hall. Some
exhibits from six counties. Hours: 7:30
9 P.M. Wednesday, 9 A.M. to 9 P.M.
Thursday, 9 to 5 Friday.

Modesto, March 30 to April 2; Modest
Junior College Gymnasium, Caldwell
Avenue. Over 300 exhibits from six

NORMAN A

Solar energy *collector was one prize-winner at last year's Bay Area Science Fair*

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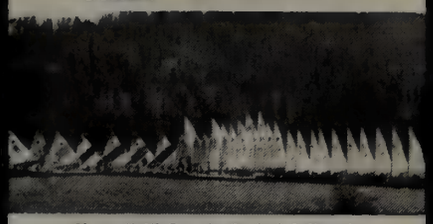
GIRLS Ages 7-15, Aug. 1-30 (full month or two weeks)



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ounties. Hours: 7:30 to 9 P.M. Wednesday, 9 A.M. to 9 P.M. Thursday and Friday, 8 to noon Saturday.

San Jose, March 31 to April 2; County Fairgrounds, 344 Tully Road. Over 400 exhibits from 60 schools in the South Bay Area. Hours: 3 to 5 P.M. Thursday and Friday, 9 A.M. to 9 P.M. Saturday.

Chico, April 12 to 15; Silver Dollar Fairgrounds. About 300 exhibits expected from all over northern California. Hours: 7:30 to 9 P.M. Tuesday, 9 A.M. to 9 P.M. Wednesday and Thursday, 9 to 5 Friday.

Sacramento, April 13 to 15; California Expo Fairgrounds, Building C, 1600 Exposition Boulevard. As many as 550 exhibits. Hours: 7:30 to 9 P.M. Wednesday, 9 A.M. to 9 P.M. Thursday, 9 to 5 Friday.

Bird watching at Utah's Great Salt Lake Park

With the start of spring migration this month, the Great Salt Lake will be inundated by birds from both the Pacific and Central flyways. Here the unusual whistling swan, great blue heron, and various ducks by the thousand will pause on their journey north.

Out on the northern tip of Antelope Island, the 2,000-acre Great Salt Lake State Park is a rewarding base for bird watchers. You can stop on the 7-mile-long causeway (newly paved) or out at the park to see egrets, grebes, mallards, pintails, widgeons.

Morning is the best bird-watching time. The park is open daily 8 to 6; there are 15 free campsites (but no water). To get there from Interstate Highway 15, take the Syracuse exit south of Ogden and follow the signs 10 miles out to the causeway.

Comic strip art and a shop for lefties in Carmel

An original Arriola—he's the fellow who draws *Gordo*—can be yours for $200 or more at a gallery in Carmel that specializes in original comic strip art, animation art, and political cartoons. Prices run from $20 or $25 for some unframed day strips (*Joe Jinks*, *Kerry Drake*) to $2,000 for a framed Hal Foster *Prince Valiant* page.

The Gallery of Fine Comic Art, at Seventh Avenue and Mission Street, is open 10 to 5 daily.

And in this world of right-handers there's help for the southpaw. The Left Hand World of Carmel, Inc., offers hard-to-find left-handed versions of many everyday tools.

There are watches with "upside-down" dials, notebooks that open backwards, and a guitar songbook with reversed chords. You'll also find left-handed scissors, potholders, can openers. It's at San Carlos Street and Seventh Avenue, open 10 to 5 daily. □

For travel planners, a March check list

European hotel guide. *Passport to Inexpensive European Hotels,* a 48-page passport-size booklet listing prices and addresses for 600 accommodations in 25 European countries, should be especially helpful to independent travelers who want to reserve budget lodgings. You can order the $2.25 booklet from Passport Publications, Box 24684, Los Angeles 90024.

Norway by mailboat. Through the summer there are four departures for 17 days of touring and cruising in Scandinavia. You'll spend two days in Copenhagen, visit southern Sweden, cruise to Oslo, and travel by train to Bergen where you'll board the mail boat, the only connecting link between many Norwegian villages. You'll visit 20 fiord communities on the mail boat's 10-day round trip to the North Cape; numerous shore excursions are also included. Air fare from Los Angeles, accommodations, and some meals are included in the $1,970 cost. See your travel agent or write to Travelguide Inc., 3660 Wilshire Blvd., Los Angeles 90010.

Hiking in northern India. A 27-day outing departing in April and November includes an 8-day trek from Darjeeling in northern India through forests and alpine vegetation, with views of Kanchenjunga, Makalu, and Everest, and perhaps a night's stay in the kingdom of Sikkim. You'll then take a 3-day trek during your week's visit in secluded and mountainous Bhutan. The cost of $2,695 includes all expenses except air fare to India. For details on this and other hikes in remote areas of Asia, Africa, South America, and Europe, write to Mountain Travel Inc., 1398 Solano Ave., Albany, Calif. 94706.

Sail the Atlantic. European-bound travelers who can take the time (in this case, five days) might consider sailing on the *Queen Elizabeth 2* from New York to Cherbourg and Southampton. Fifteen round-trip crossings begin April 6. One-way fares start at $620. Many sailings offer round-trip reductions of 15 to 50 percent and as many as three optional return dates. Air-sea packages are also available. For details, see a travel agent or write to Cunard, 555 Fifth Ave., New York 10017.

What a travel agent can do for you: Provide information on tours; reserve space on air, rail, bus, and steamship lines; make hotel, ranch, and resort reservations; take care of trip planning, including side trips and special events. Travel agencies do not charge for arranging transportation or package tours, but do charge for "custom" tour service.

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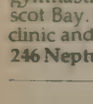

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Garden Center	beginning page 240C
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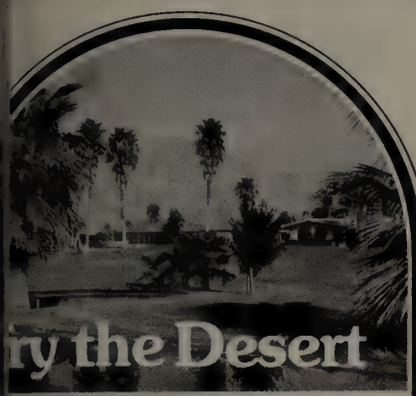

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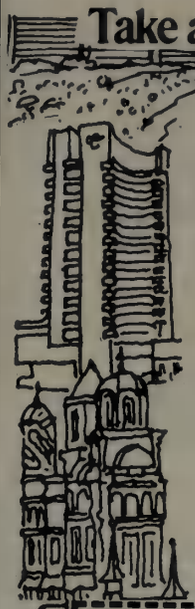

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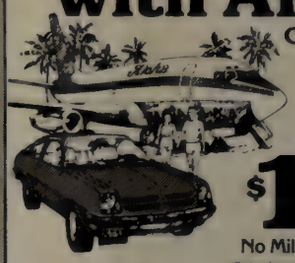

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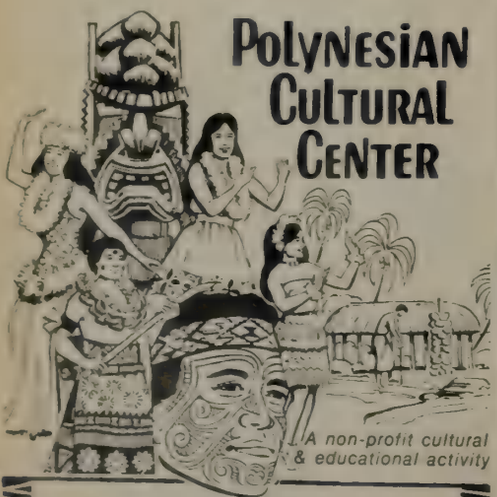

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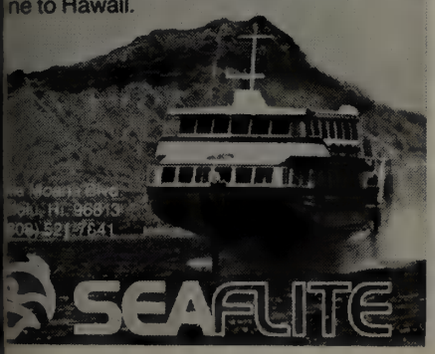

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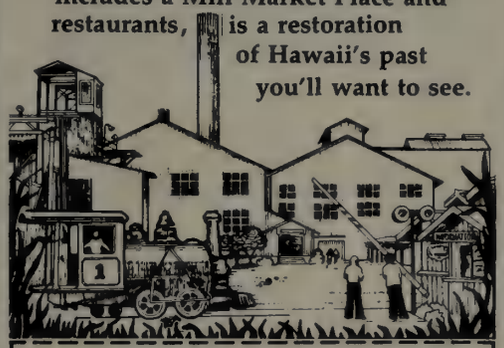

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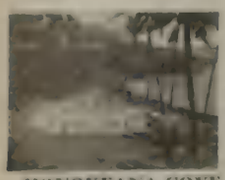

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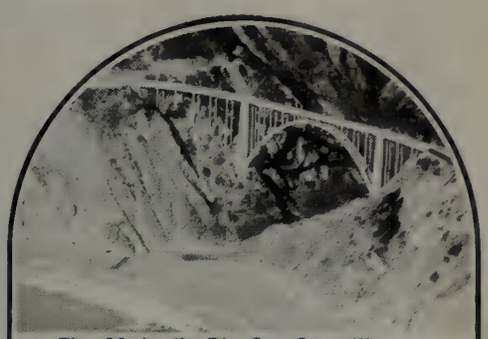

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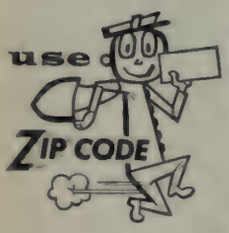

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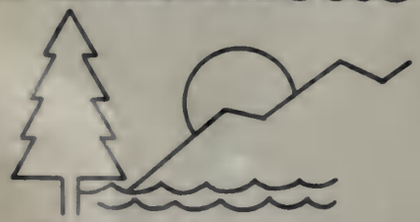

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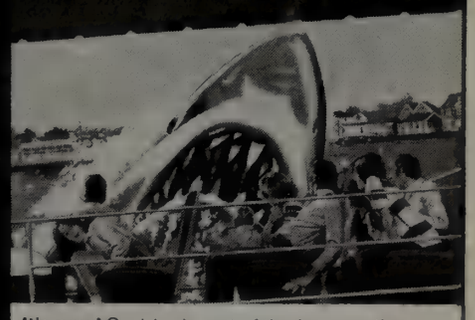

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SANTA BARBARA

TRAVEL DIRECTORY IS CONTINUED ON PAGE 21

Rest stop *near the top gives hiker a look at Salinas, surrounding farmlands*

Toro Park... grea for day hikes

On a clear day, the view is magnific from Eagle Peak in Monterey Cour Toro Regional Park. You look out ac the park's 5,000 hilly acres—includ the 2.7-mile trail that brought you to top—and over a panorama that take Pacific Grove, the Salinas Valley, Monterey Bay clear to Santa Cruz.

With seven trails to choose from (ho are allowed on six), Toro Park is g for day hikes. The trails to Eagle P are the longest and most strenu climbing 1,400 feet. But there are ot easier walks. Some lead through can with oaks, quail, and an occasional d while others take you up low ridges overlook the vast quiltwork of fa along the Salinas River. We met year-old boy who hiked, with no from his patient father, high enoug see the Pacific, about 10 miles away

In addition to day hiking and picnick the park has a staging corral for ho (bring your own—there are no h rentals here) and areas for barbe softball, volleyball, and groups.

Toro Regional Park is open from 8 until dusk; you pay a use fee of 50 per vehicle at the entrance, where r of the park and its 11.4-mile trail sy are available. If the toll booth is cl get your map at the maintenance o just inside the entrance on your left

The park entrance is on the south si State Highway 68, about 5 miles so west of Salinas (or 12 miles east of d town Monterey).

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INTROD
THE 1977

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How does it compare to a van? Your Bus is almost as roomy, but because the rear seats are not optional, it's a whole lot more comfortable. And a lot nicer, for that matter. In fact, the interior is beautifully finished.

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See that rear hatch? And the big sliding door? They mean you can use your Bus like no other vehicle. One minute you're carrying the Little League team, or the whole dance class. The next you're taking home that antique dry sink you practically stole at the auction. Yet, because the Bus is shorter than most cars, it's easy to park. For all-around usefulness, there's nothing like your VW Bus.

ECONOMY

The '77 VW Bus costs only a little more to buy than the average domestic sedan and less than most big station wagons. And to run, it's out front by miles. The 2-liter engine is powerful and responsive, but it's also super-efficient, because it has electronic fuel injection which helps to give you an estimated 28 mpg on the highway, 20 in the city with standard transmission in the 1977 EPA tests. Of course your actual mileage may vary depending on where and how you drive, your Bus' condition and optional equipment.

DRIVEABILITY

Your Bus has fully independent suspension on all four wheels, and radial tires, which give you a smooth ride and excellent roadholding. It has ten-inch power-assisted front disc brakes, for sure stopping power. And just look at the visibility from the driver's seat. Together, they all add up to great handling, and more pleasurable driving. And you can choose a standard transmission or fully automatic.

From any angle, the '77 VW Bus is clearly a winner. So visit your Volkswagen dealer and see how much farther your money will go when you take the Bus. Just be sure to bring the whole gang with you. As we say, the '77 VW Bus is a family affair.

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STEVE W. MARLEY

pounders *(right) of carved lava are a of many Hawaiian artifacts in show*

Old Hawaii in San Francisco

nnants of the old Hawaiian way of are hard to find, but in a new exhibit an Francisco's California Academy ciences you can see some 300 arti- ; once used on the Islands.

ed the Ostheimer Collection of Ha- an Antiquities, it is the largest such bit on the West Coast; in quality it s worldwide with the collections in Bishop Museum in Honolulu and the hsonian Institution. The artifacts be on special display through De- ber when they will go into the lemy's permanent collection.

one-room show tells the story of the ds when they were ruled by king *kahuna* (priest) and celebrated an- t rituals and religions. You'll see e poi pounders and wooden tapa ers along with fancy apparel such as her leis and whale's tooth necklaces. niling stone fish carved out of lava esents *Ku'ula,* the fish god. Another lay shows fierce-looking stick images wn as *akua ka'ai,* once thought to brought great power in battle.

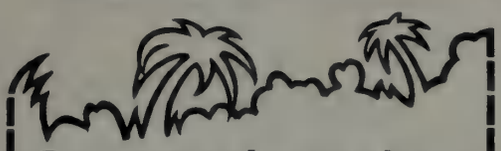
tographs and drawings accompany maries of the history and use of the acts. For example, one exhibit de- es the making of delicate tapa cloth.

California Academy of Sciences in den Gate Park is open 10 to 5 daily. nission is 50 cents for adults, 25 s for students 12 to 17. Kennedy e, the park's main route, is closed Sundays, so check Middle Drive E. parking. On any day, the Number 10 nterey bus from downtown stops t at the building.

April 10 only, Ehulani's Polynesian ce Review will present several free ormances beginning at 2 P.M. in the eum's Wattis Hall of Man. □

The Sunset Travel Directory

Mexico



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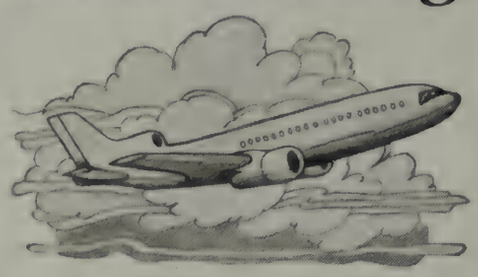
"I got the plane in the morning.



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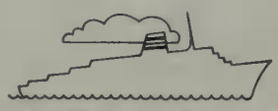

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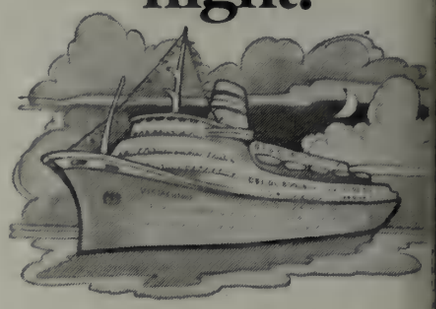
Special Cruises

And the ship a night."



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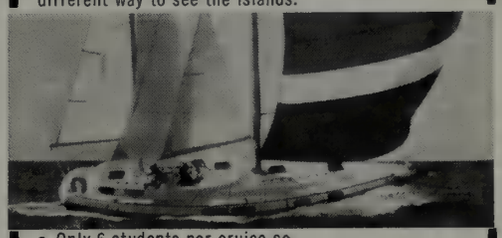

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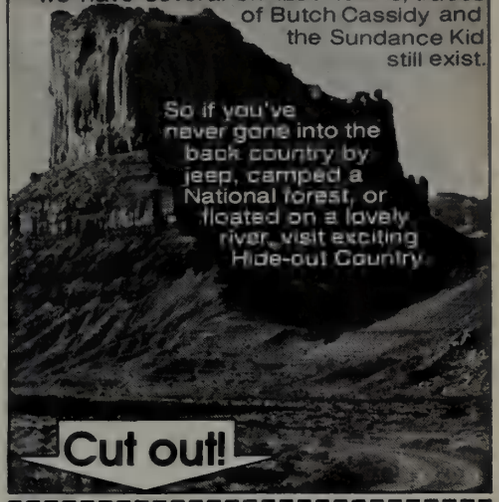

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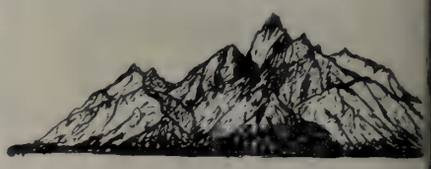

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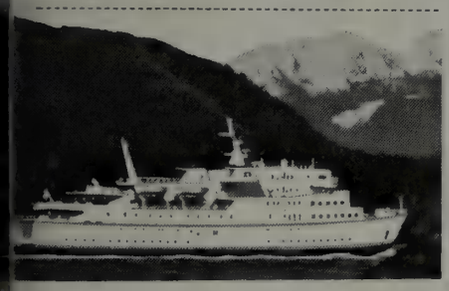

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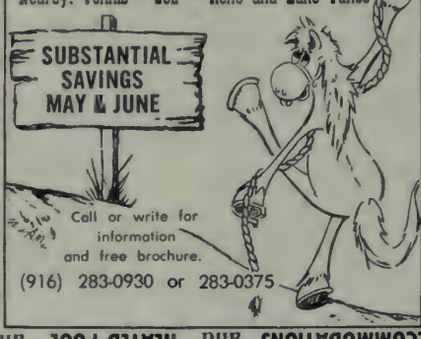

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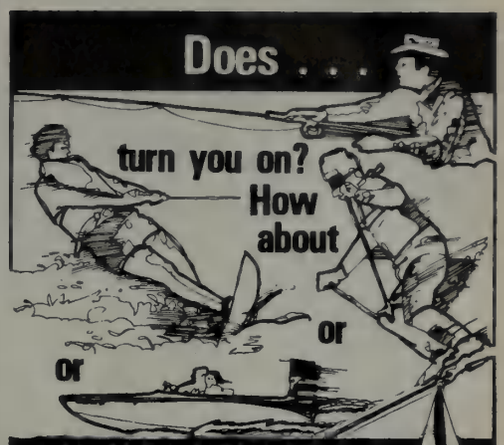

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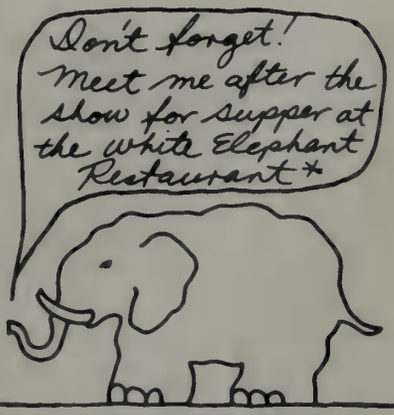

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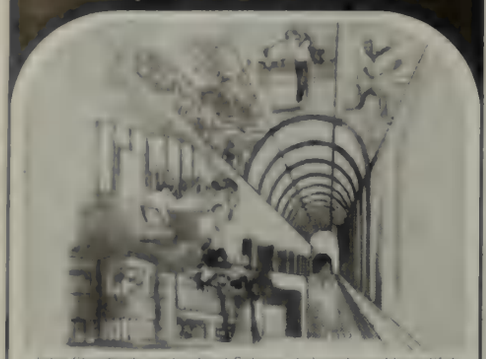

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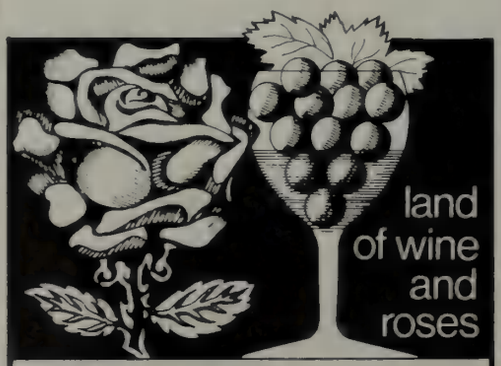

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STEVE W. MARLEY

Has the day *of the off-the-shelf solar water heater arrived? It may be near—as solar expert Winston Boone explains*

A March look at the new hardware

You hear the term "appropriate technology" a lot these days; it generally means simple technology adapted to everyday human needs. Unfortunately some of the products—solar systems, new food and garden equipment, do-it-yourself devices—can't always be found close at hand.

But at a mid-March trade show in downtown San Francisco, you can inspect and handle some of this hardware. Called the "First New Earth Exposition," the show will run March 17 through 20 at Brooks Hall, under the Civic Center plaza at Larkin and Fulton streets, across from City Hall.

By attending a trade show like this one, you can learn first-hand about products and services that aren't widely distributed or are just coming on the market; you can also follow the work of local entrants and judge their reputations for yourself. (But keep in mind that the disadvantage of a trade show is the sometimes vastly uneven quality among the exhibits.)

Some exhibitors fit the more exotic alternative life style mold, with such offerings as herbal flea collars and yoga referrals. But you'll also find wares with more immediate potential around the typical home: solar hot-water heaters and greenhouses, home canning systems, food dryers, and drip-irrigation supplies.

The show will also present speakers, films, and demonstrations by public and nonprofit private organizations.

Hours are 11 A.M. to 9 P.M. on Thursday, 11 to 10 on Friday, 10 to 10 on Saturday, and 10 to 8 on Sunday. Admission is $2.75 for adults, $1 for children from 6 through 12. An underground parking garage adjoins Brooks Hall. □

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STEVE W. MA

"Sing 'Boo!' to you." *Lady Jane and Bunthorne decide what they'll say to foil a rival poet in the Stanford Savoyards production of Patience*

Gilbert and Sullivan this spring in Davis, S.F., San Jose, Stanford

For over 100 years the comic operas of Gilbert and Sullivan have entertained audiences by taking a witty swipe at just about everything—yet in such a delightfully polished way that even Queen Victoria was among their highly amused following.

One indication of the vitality of these plays is the frequency of their performance. In the San Francisco Bay Area, four community drama groups—in Davis, San Francisco, Stanford, and San Jose—offer you the chance to enjoy Gilbert and Sullivan on a regular basis. Here are details about each group and their 1977 spring schedule. All four sell tickets at the door, but it's safest to buy them ahead.

Davis. The Davis Comic Opera C pany, established in 1973, has 50 t people in each production, plus orc tra. Either the spring or fall seasor fers Gilbert and Sullivan. This sprin *The Pirates of Penzance* May 12, 14, 19, 20, 21 at 8:15 P.M., Ma at 7:30; at Veteran's Memorial C Theater, 14th and B streets. To c tickets, send a self-addressed star envelope to Box 640, Davis 9561 call (916) 753-2334. Adults, $3.50; dren and students, $2; champagne May 13, $6.

San Francisco. The Lamplighters, of the Bay Area groups, are in their year; their fall, winter, and spring s have 50 to 70 players in each, plu

Spanish backdrop *for Victorian satire: San Jose's Montgomery Theater*

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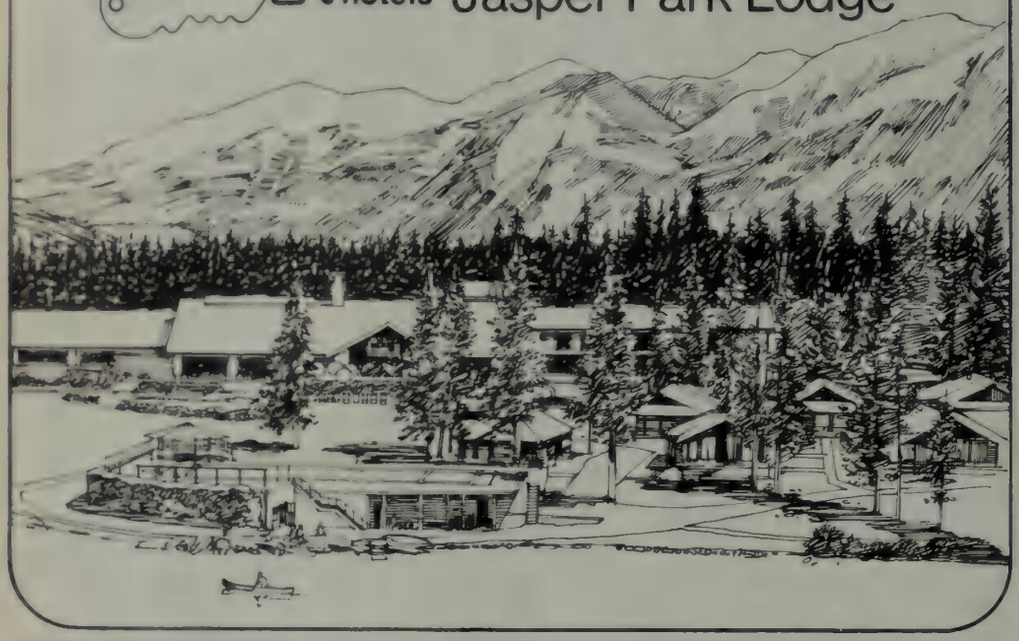

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If you have a well-built, imaginative model — anything from a camper for the back of a pickup to the more elaborate full-length live-in models—which you would be interested in including in our show, please send us a snapshot of it.

We would like to hear from you by April 5. Write to Camp Show, Homemade Vehicles, Sunset Magazine, Menlo Park, Calif. 94025.

STEVE W. M

Getting to know *the players is a 25-year-old tradition after performance of the San Francisco Lamplighters*

orchestra. *The Pirates of Penzance* March 5, 11, 12, 18, 19, 25, 26, April 1, 2, 15, 16 at 8:30 P.M., M 20 and April 3 at 2:30; at Present Theater, 2350 Turk Street. For tic send a self-addressed stamped env to Lamplighters Box Office, 68 J Ave., San Francisco 94103, telep (415) 752-7755; also at regular t outlets. Adults, $5 and $6.50; stu and seniors, $2.75 and $3.50. C and cookies are usually free afte show and you can mingle with the

Stanford. The Stanford Savoyards tablished in 1973, present spring an shows with a cast of about 50 in plus orchestra. *The Gondoliers* April 29 and May 1, 7, 8 at 8 April 30 at 2 P.M.; at Dinkelspiel torium on campus. To order tic send a self-addressed stamped env to Tresidder Ticket Office, Box Stanford 94305, telephone (415) 4317; also at regular ticket ou Adults, $3; students, $1.50.

San Jose. The Gilbert and Sullivar ciety of San Jose, established in presents winter, spring, and fall pro tions with 40 to 50 players in each two pianos for accompaniment. *H. Pinafore* will set sail on May 20, 2 28 at 8 P.M., May 22 and 29 at 2:3 Montgomery Theater, 145 W. San los Street. Tickets are available by from Box 2333, Santa Clara 9505 call (408) 243-4775; also at re ticket outlets. Adults, $4; seniors students, $2.50. You can chat wit cast after each performance.

You can sample just a bit of Gill lyrics and Sullivan's music on Apr at De Anza College's Flint Center. era à la Carte with Highlights of G and Sullivan" will be presented at P.M. Tickets are $3.50, $4.50, and $ available by mail from Flint Ce 21250 Stevens Creek Blvd., Cupe 95014; or at regular ticket outlets. (408) 257-9555 for details.

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Shrouded *in clouds, Mount Pelée looks down on the ruins of the St. Pierre opera house it destroyed 75 years ago*

If your ship stops in Martinique

Most of the Caribbean cruises that vis Martinique's capital of Fort-de-Franc schedule only an 8-hour stopover. B that's plenty of time to arrange a tour the island's most famous destination, S Pierre, some 20 miles away.

There in 1902 Pelée volcano explode releasing enough heat and gas to k some 30,000 inhabitants. Today visito can stroll the narrow streets and inspe the opera house ruins and the cathedra Visit the small *Musée Volcanologiqu* and you'll see reminders of the disaste heat-contorted but still full perfume bo tles, carbonized bread loaves, and new paper accounts of the event.

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When you want to leave, walk down the shoreline market to catch a bus taxi to take you partway up the side the volcano to Morne Rouge. There yo transfer to a taxi returning to the capit through banana plantations and rain fo est. You can arrive in time to lunch ar shop for alligator shirts and perfun before the ship departs. (Perfume is di counted 20 percent when you pay b traveler's check.)

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PETER O. WHITELEY

Controversial likeness *of the noted writer stands at library entrance in Salinas Civic Center*

Home-town Salinas shares its Steinbeck memories

While the rest of the world awarded him accolades and prizes, John Steinbeck's home town of Salinas, California, was largely scandalized by his writings. Time, however, has a way of healing wounds. Shortly after Steinbeck's death in 1968, Salinas renamed the main branch of the city library after its most famous native son (an action not supported by all its citizens) and began collecting mementos of his life.

Now each February (the anniversary month of the writer's birth) Salinas's John Steinbeck Library presents an exhibit relating to his life and work. Display cases in the main reading room are filled with editions of his published works, old photographs of his family and their Central Avenue home, school pictures and yearbooks, and posters and stills from some of the movies based on Steinbeck novels—*Tortilla Flat, Of Mice and Men, The Grapes of Wrath.*

This year, the exhibit will continue on display through March 15. The library, on San Luis Street between Church and Lincoln, is open Monday through Friday from 9 A.M. to 9 P.M., Saturday from 9 to 6. It's closed each Sunday.

Steinbeck materials not included in the reading room displays are available to students and other groups throughout the year by special arrangement. These include recorded interviews with family members, teachers, and neighbors. For reservations (about 10 days in advance of your visit) telephone the Library at (408) 758-7311.

These students *arranged in advance to see Steinbeck memorabilia—letters, periodicals, reviews*

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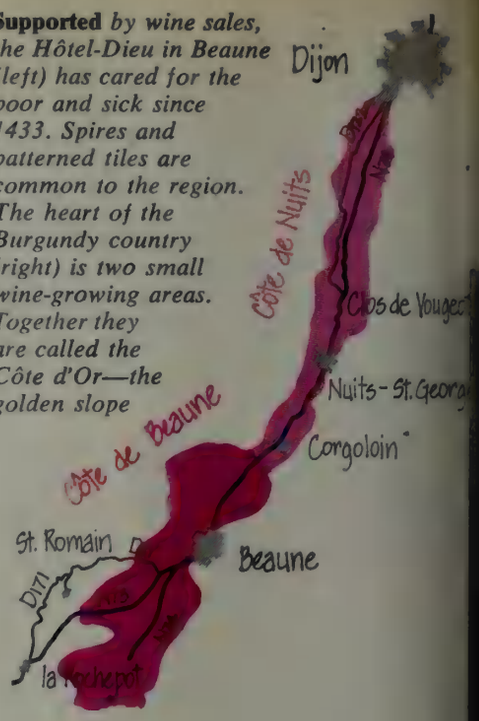
LEE FOSTER

Supported *by wine sales, the Hôtel-Dieu in Beaune (left) has cared for the poor and sick since 1433. Spires and patterned tiles are common to the region. The heart of the Burgundy country (right) is two small wine-growing areas. Together they are called the Côte d'Or—the golden slope*



The heart of the Burgundy country

While the legendary Burgundy wine country covers a large area of east-central France, its core is surprisingly small: a narrow strip of fragmented vineyards and tiny stone villages stretching some 35 miles south from Dijon, scarcely longer than California's Napa Valley. At its heart is the small walled town of Beaune, the center of a thousand years of wine-making tradition and a fascinating detour for wine-loving travelers.

The vineyards, low on east-facing slopes overlooking the Saône River plain, are divided into two zones: the Côte de Nuits, which produces the greatest, long-aging red wines; and the Côte de Beaune, with somewhat faster-maturing reds and hearty white Burgundies. (Higher-up vineyards, called the Hautes Côtes, produce more common wines.) Village names read like the contents of a connoisseur's cellar: Gevrey-Chambertin, Chambolle-Musigny, Vougeot, Pommard.

Most wineries and attractions are open from 9 A.M. to noon and 2 to 6 P.M. So if you're based in Dijon, go directly to Beaune via national highway N74 and tour in the morning, then spend the long lunch hour in one of the villages. (Try to reserve a car ahead through your travel agent or a rental chain; rental cars are sometimes scarce in Dijon.)

Beaune is literally pervaded with the musty aroma of grapes and wine: More than a million bottles are stored in great, cobweb-hung caves underfoot. (In one dark corner, a *Sunset* reporter found a worker removing sediment—apparently for aesthetic reasons—from bottl bound for the United States.) The visit center in the town's central plaza ca give you a list of which cellars in ar about town are open to visitors.

Beaune's great attraction is the Hôte Dieu on the central plaza, a Gothic ma terpiece that has ministered to the elder poor for five centuries. Here you can s the original kitchens and sixteent century apothecary, and an impressi art collection—especially tapestries.

On the rue de l'Enfer is an extensive wi museum in l'Hôtel des Ducs, home the war-prone old Dukes of Burgund The museum traces the development winemaking from Roman times; gre wine presses stand outside.

Two detours give you the feel of t countryside. South of Beaune, road D1 takes you into the hills for a view dow onto the vineyards. Just above la Roch pot you can visit a marvelous turrete moated castle; just north of la Rochép on N73, you can buy goat cheese fro a farm wife who tends a roadside tab (Goat cheese is an acquired taste, so easy if you haven't eaten it before.)

Make your return trip to Dijon by rou D122 (occasionally marked as "Rou des Grands Vins"); branching off N at Clos de Vougeot, it takes you rig into small villages and the vineyards th surround them. In the fermenting roo of the Château Clos de Vougeot, you c see four huge wine presses installed monks in the thirteenth century; one them is still in use.

Come to Antonio's Spain.

© 1977 Spanish National Tourist Office

Granada. Antonio's great-great-grandfather would still feel at home here, even in the twentieth century.

His shop is now Antonio's, but it looks much the same. Antonio now makes the guitars, but he makes them the same way.

His favorite tavern hasn't changed. The Alhambra palace is just as Moorish and just as mysterious.

About the only difference is now there's year 'round swimming, golfing and tennis at the luxury resorts of the nearby Costa del Sol.

And the local monastery is now a *parador,* a magnificent hotel where a night's stay for two costs $19.00 or less, including breakfast.

This is the real Spain. Antonio's Spain. Your travel agent can tell you more. Or send the coupon.

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450 SEL

he automobiles of Mercedes-Benz. The legend continues.

cedes-Benz invented the omobile in 1886—and in 5 produced the first car ever on a production line. Over generations, Mercedes-Benz perfected one engineering nce after another.

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ow Mercedes-Benz offers seven separate and distinct models le in the United States. Each s unique. Each one continues, own way, the Mercedes-Benz d.

t left, you see almost 50 years e life of a legend. Look closely. ow nobly time touches these edes-Benz automobiles. Their l is enduring. A characteristic narks the truly legendary, and guishes it from the merely g fancy.

blend of future and past

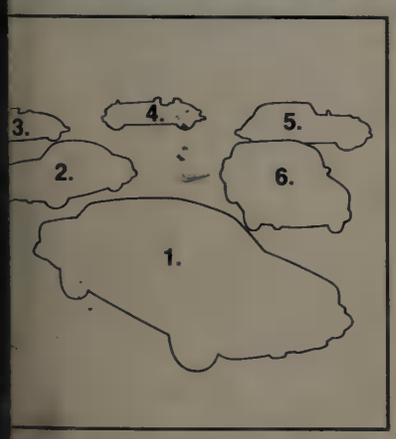
is disciplined grace, the prod- f thoughtful evolution in design. When Mercedes-Benz engineers create a new car, their vision is wide. They look backwards to retain and improve on their worthiest earlier ideas. And forwards as well, to blend in their latest innovative technology.

Thoughtful evolution in design: a mark of Mercedes-Benz.

To the eye, the changes that have been wrought may be subtle. Invariably, though, they are quietly beautiful—which shows how unerringly their "form follows function."

More importantly, the cars of Mercedes-Benz are designed to appeal strongly to your intelligence. They are honest cars. The promises they make relate directly to their primary function: well-engineered, safe transportation.

One of the seven Mercedes-Benz models currently available in the United States is in the front rank, left: the 450SEL Sedan. Our full offering is described in the table, above. Each model represents a blending of patient craftsmanship with sophisticated technology.



SEL (1977); 2: 300SL Gullwing (1955); 3: 500K Special Roadster (1935); Super-charged SSK (1929); 5: 540K abriolet B (1936); 6: 600 (1969).

Mercedes-Benz Technical Specifications

MODEL	ENGINE	DISPLACEMENT (CU. IN.)	WHEELBASE (IN.)	OVERALL LENGTH (IN.)	CURB WEIGHT (LBS.)
240D	4 cyl. ohc (fuel injected)	146.7	110.0	190.9	3210
300D	5 cyl. ohc (fuel injected)	183.4	110.0	190.9	3515
280E	6 cyl. dohc (fuel injected)	167.6	110.0	190.9	3530
280SE	6 cyl. dohc (fuel injected)	167.6	112.8	205.5	3905
450SEL	V-8 ohc (fuel injected)	275.8	116.7	209.4	4080
450SL	V-8 ohc (fuel injected)	275.8	96.9	182.3	3815
450SLC	V-8 ohc (fuel injected)	275.8	111.0	196.4	3860

Enduring value... and enduring pleasure

Many models of the elegant 500K shown here (No. 3, Circa 1935) are appraised at over $50,000. The rare 540K Cabriolet B (No. 5, Circa 1936) is considered a genuine value at $75,000. And based on average official used car prices over the past five years alone, the contemporary Mercedes-Benz automobiles have held their value better than any other make of luxury car sold in the United States.

The high retained value of Mercedes-Benz cars is a rational attraction. But they have an emotional raison d'être, too. To experience it, arrange, through your Mercedes-Benz Dealer, to drive one. You'll experience an unrivaled automotive pleasure behind the wheel of this charismatic car from Mercedes-Benz. Truly, the legend continues.

Mercedes-Benz

Engineered like no other car in the world.

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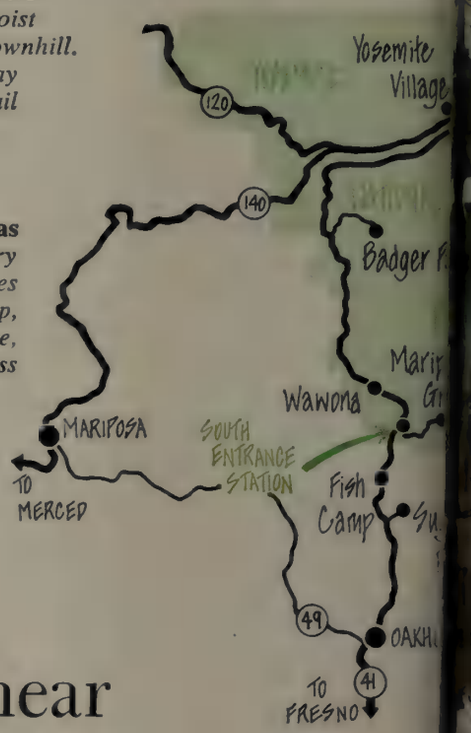
roken line of excellence. Since 1886, Mercedes-Benz has produced one classic automobile after another. e a car engineered like no other car in the world.

JERRY FREDRI

Lively chorus *of inner-tubers wipes out; determined soloist at left launches himself downhill. They're all at the snow-play meadow reached by the rail car pictured at right*



Snow-fun areas *near south entry include slopes at Fish Camp, Mariposa Grove, and Badger Pass*

Fun in the snow near Yosemite's south entrance . . . among the giant sequoias, on a little rail car

A good choice for casual snow fun this dry winter is around Yosemite's south entrance (on State Highway 41), 60 miles north of Fresno. Even when the snow is too tacky for good skiing, you can snowshoe, toss snowballs, picnic among giant sequoias, ride saucers, and enjoy the forest from a little rail car.

And this entry to the park is convenient to most Californians: about 250 miles from San Francisco, 275 miles from Los Angeles.

The Yosemite Mountain - Sugar Pine Railroad (4 miles south of the park entry along Highway 41) operates an open rail car, weather permitting, each Saturday and Sunday from 10 until 4. The rail car runs from an off-highway parking lot at the railroad ticket office and roundhouse exhibit to a gentle snow-play meadow and picnic area especially popular with inner-tubers (you can rent tubes for $1.25 a day). The 4-mile rail trip costs $2.50 for riders 13 and over, $1.25 for youngsters 5 through 12; children under 5 ride free.

Inside the park at the South Entrance Station, a side road bears right for 5 miles to Mariposa Grove. The Seq Forest Trail around and through grove is extremely popular with sn shoe hikers and cross-country sk and the snow-frosted big trees ma fine setting for picnics; there are fa near the parking area.

No snow-play equipment is availab the grove, but you can rent snows ($4 a day) and saucers ($1.50 a da the Badger Pass Ski Area, 25 miles r of the entry station. Badger Pass h saucer hill, and Sno-Cat tours run a the Glacier Point Road every hour

Giant sequoia *backdrops a family romp at Mariposa Grove*

Motorized *rail car (above) crosses* *tle to snow-play meadow. Little rail car* *undhouse (at right) is powered by hand*

o 3:30; cost is $2.50 per person. A variety of snow-play rentals is also ble at sport shops in Fresno.

amodations near Yosemite's south ce (all Area Code 209) include rst Lodge (683-4417) and Sierra anch (683-4433) in Oakhurst, and Melody Inn at Fish Camp (683- For reservations within nearby ite Valley, call Yosemite Park and Company at 373-4171.

ations for weekends should be ed well in advance. □

Grassy clearing *at the edge of Bon Tempe Lake provides a spot for March hikers to step off the trail and spread a lunch out of their day packs*

JERRY FREI

Trails *dip and rise gently, making Marin reservoirs good places to introduce young children to hiking*

Highest reservoir-lakes in Marin welcome you

The three highest reservoirs in Marin County are still full enough to offer some of the most pleasant waterside hiking and picnicking in the San Francisco Bay Area. They're in Marin's Municipal Water District, the metropolitan area hardest hit by the drought that started in 1975—so why are the water levels high?

Here's the reason: Phoenix Lake has an extremely large watershed for its small size; Lake Lagunitas is kept full to supply the Air Force reservation atop Mount Tamalpais (it may be drained this summer, however); and Bon Tempe Lake holds water pumped from lower, northern reservoirs for use by south Marin residents.

All three nestle against the north slope of Mount Tamalpais. You can hike right around any one of them in a few hours, or make a day's outing around any two. The longest water's-edge walk is 4 miles around Bon Tempe. A fire road connects Phoenix to the lower two.

Easy, rolling footpaths meander along the lakes, now ducking into forests of redwood, oak, maple, alder, and bay, then crossing grassy meadows (wild iris should be poking up this month). You traverse fern-banked feeder streams on rough, mossy bridges—or jump from stone to stone, so wear sturdy shoes.

Picnic spots in clearings are frequent along the trails, and there are two areas with tables, barbecues, and toilets: one at Natalie Coffin Greene Park by Phoenix Lake, another at the south end of Bon Tempe. Neither of them has drinking water.

You can reach all three lakes from Sir Francis Drake Boulevard. For Phoenix Lake, turn west on Lagunitas Road in the town of Ross and continue to the stone gates of 34-acre Natalie Co Greene Park. Inside, narrow Dibl Road winds ⅕ mile to a small park area (you can also park by the r about ⅕ mile outside the gates walk in).

To reach Bon Tempe and Lagun take Bolinas Avenue west out of cen Fairfax about 1½ miles, then fork on New Lagunitas Road. Admissio $1 per car is charged at a gate abou mile farther. Soon, a signed fork nounces Lagunitas and Bon Temp the left, Alpine Lake to the right. dirt road to the right brings you to p ing just below Bon Tempe dam; to left you'll find parking between Tempe and Lagunitas.

The reservoirs are open daily fro A.M. to sunset. Fishing (for sto trout) is permitted from the banks; b ing and swimming are prohibited.

An invitation from Three Sisters.

First, introductions are in order. I'm the Middle Sister. To your left is my South Sister, and to your right, my North Sister. All three of us stand over 10,000 feet tall.

And quite frankly, no one knows this country better than we do. It's spectacular. But I must admit it gets a little lonely. Which is why I'd like to have you stay with us. But my sisters think that's selfish of me. I suppose they're right. It does get pretty cold up here sometimes.

So you're probably better off staying in one of the surrounding resort areas where you can golf, swim, ski, bicycle and horseback ride. That's what I would do. But I'm one for luxurious living.

My sisters disagree. They're much more into our family heritage. They think you'd be happier setting up a tent. Fishing our blue lakes and streams. Picnicking in the wildflower meadows. Hiking through our stands of Ponderosa pine. And exploring the ancient lava fields.

R.S.V.P.

For more information, we invite you to see your travel agent or mail us the coupon.

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OREGON

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Then, there's us. The Three Sisters, said by many to be the fairest of all.

Come visit.

And even if you don't make the climb to see us up close, don't worry about hurting our feelings. Just knowing that you came to Central Oregon because of this ad is enough to keep us going for another hundred thousand years.

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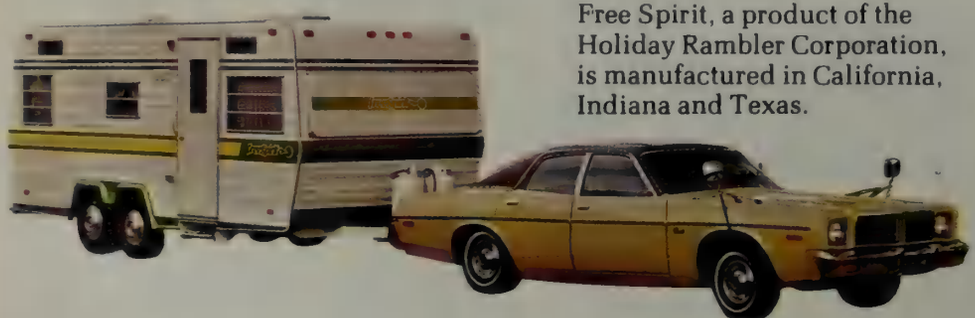

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A first-aid book in your backpack

Do you camp, backpack, or hike in t wilderness? If you do, you probab know at least a little about first-aid a survival techniques. But there may co a time when that little isn't enough.

That's when a good reference book c ried right in your backpack or d fel bag will be invaluable. These f guidebooks are designed for such fi use. Each is small enough to tuck into pack, and each costs less than $2.

The books are sold in some booksto and sporting goods stores—or you c order direct from the publisher.

How to Stay Alive in the Woods, Bradford Angier (Collier Books, 8 Third Ave., New York 10022; 19 $1.50). Largest of the five, with 2 pages and over 60 illustrations, it cov almost every kind of emergency sit tion. There are chapters on making shelter, orientation and signaling, lig ing a fire, emergency first aid, and w edibles.

Frostbite, by Bradford Washburn, (M seum of Science, Boston 12114; 19 $1.50). This brief (25-page) but th ough work explains what frostbite how to prevent it, what emergency tre ment to administer on the trail. It' vital take-along for all cross-coun skiers and snow campers.

Mountaineering First Aid and Accid Response, by Gross, Harms, Post, a Mitchell (The Mountaineers, Box 1 Seattle 98111; 1975; 75 cents). In pages this compact booklet tells how handle the most common outdoor ac dents. It includes more than a do drawings and charts and a comp accident report form.

Mountaineering Medicine: A Wilderr Medical Guide, by Fred Darvill, M.D. (Skagit Mountain Rescue U Box 636, Mount Vernon, Wash. 982 1975; $1). Its 47 pages specify the b emergency treatment for problems countered by mountain climbers other outdoorsmen: altitude sickness, haustion, insect bites, broken bones.

What to Do about Bites and Stings Venomous Animals, by Robert E. nold, M.D. (Collier Books, 866 T Ave., New York 10022; 1973; $1. Covering some 200 snakes, lizards, sects, and marine animals of N America, the 122-page book includes identifying illustrations and an index antivenin centers and their teleph numbers.

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STEVE W. MARLE

Bird banding station *is one stop on Monte Bello Preserve hike; at the station guides explain how migration studies are conducted*

Amateur mycologist *hunts for mushrooms in the leaf-strewn underbrush. Other hikers searched for bobcat and coyote tracks*

Monte Bello Ridge hike. You call ahead, arrange or join a tour

Already there are some wildflowers to see up on Monte Bello Ridge and, following any early rains, the blue wild lilac, golden poppies, and white popcorn flowers should soon begin to paint the hills the colors of spring. In this Black Mountain area just 15 miles west of San Jose, some 760 acres have recently been opened as the Monte Bello Open Space Preserve—part of the nearly 4,000 acres of open space protected by the Midpeninsula Regional Park District.

So far the only public access to the preserve is a 2 to 4-hour, 3½-mile guided hike. On a clear day you'll have magnificent views that take in the Santa Cruz Mountain range on one side and the urbanized end of the Santa Clara Valley on the other.

You'll begin at the 2,700-foot elevation of Black Mountain, wind along the ridge, then head down its west side. On frequent stops you'll learn to identif animal tracks (coyote, bobcat, blackta deer are common) and you'll hear abou geologic history and plant life.

It's a good idea to bring along a canteer since the preserve has no water. Als pack a snack for the picnic stop usuall scheduled at the bird banding statio That's where volunteer guides explai how wild birds are safely trapped c netted, tagged, and then released fc future migration studies.

To arrange a tour for groups of 5 to 2 (or join one already scheduled), call th M.R.P.D. at (415) 965-4717; it's best t call at least a week ahead. Tours begi at 10 A.M. and can be scheduled an day. Entrance to the preserve is at th end of Montebello Road—which leave Stevens Canyon Road 3.2 miles south c Interstate 280. There are no sanitary fa cilities in the preserve.

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EDWARD ROSCH

Rest area displays *along Interstate 80N commemorate the days of the Oregon Trail in pictures and text—often with quotations from old diaries and letters*

For 300 miles, new exhibits mark the old Oregon Trail

In the spring of 1841 a wagon train of 69 pioneers left Independence, Missouri for the Oregon Territory, following a 2,000-mile route soon to become famous as the Oregon Trail. The rutted wagon paths, Indian trails, and dangerous mountain and river crossings of that historic path have long since been eclipsed by concrete and asphalt highways. The journey that took the pioneers six months can now be driven in four days.

But a certain romantic fascination with the old pioneer road and its role in frontier life persists. One response to Westerners' interest is a series of new historical displays telling the story of the emigrants' trek; they were put up last summer by the Oregon State Parks and Recreation Branch.

These 11 exhibits along Interstate Highway 80N follow the original emigrant trail most of the way through the state—from Ontario, near the Oregon-Idaho state line, to Rowena, about 75 miles east of Portland. (The Dalles was considered the end of the Oregon Trail. Many emigrants continued west another 6 miles to Rowena and then rafted down river, while others followed the Barlow Road to the Willamette Valley.)

If you're traveling 80N, the displays are conveniently located at rest areas and state parks right by the highway. Drawings, photographs, and text describe a section of the trail, and maps show nearby remnants for those who have time to explore farther afield.

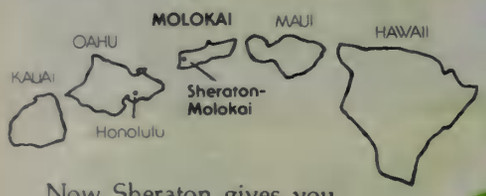
You can picnic at any of these stops. Some of the parks also offer overnight camping for $3 to $5 per site.

For a free and highly recommended guide to the old trail and the new displays, write to the Oregon Highway Division, Travel Branch, Salem, 97310.

The Sheraton-Molokai opens April 1st

Discover a new Hawaiian Island!

Molokai, just 20 minutes by jet from Honolulu, is an island of untouched, astounding beauty . . . shimmering waterfalls, velvet-green hills, towering rock cliffs, pristine beaches. Molokai has been Hawaii's best kept secret for years.



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A river run to match your interest

River-running outfitters continue to re fine their trips to meet the special inter ests of their passengers. Once it wa enough to provide a safe, well-run trip now, with the number of outfitters in creasing, some are providing specia programs on Western rivers. You'll fin trips for conservationists, photographer people interested in science. Some trip yield college credit; some are limited t young people.

The trips listed below are a sampling For a longer list of river outfitters, se the April 1975 *Sunset*, page 84.

Tour for conservationists

David R. Brower of Friends of the Eart will lead a freewheeling symposium du ing a 14-day raft trip through the Gran Canyon starting on May 31. The trip wi be limited to 24. The $685 cost include round-trip transportation to the rive from Flagstaff. Write to Wildernes World, 1342 Jewell Ave., Pacific Grov Calif. 93950, or call (408) 373-5882.

Photographer's expeditions

Two outfitters have scheduled photog rapher-led spring trips on the Salmo and its tributaries. In still-cool April an May the tender new growth along th riverbanks tempts winter-hungry gam to within close camera range of passin boaters. You may see big horn shee elk, deer, and an occasional bear.

Primitive Area Float Trips, Box 585-I Salmon, Idaho 83467, telephone (208 756-2319, offers 6 and 11-day trips leav ing on April 10 and 24, May 2 and 18 Six-day trips cost $340 to $375; 11 day cost $485 to $525. Guests pay the cos of transportation to the river.

Idaho Adventures will take a minimu of four floaters on eight trips planne for April through mid-May. The 6-da trips cost from $415 to $445 and includ round-trip transportation to the rive from Boise. For more information writ to them at Box 834-S, Salmon, Idah 83467, or call (208) 756-2986.

From July 21 to 26, a third outfitter wi also have a photographer's raft trip o the Salmon. The $350 fee includ round-trip transportation from the tow of Salmon to the river. You can write t Echo: The Wilderness Company, 650 Telegraph Ave., Oakland 94609, or ca (415) 658-5075.

Rafting for college credit

Echo (same address as above) offers co lege extension credits through U.C

Dodge Ramcharger has got it where it counts.

night think, "Now there's thing I'd really like to do. Get lf a good solid four-wheeler like charger. Get off the road and have ." But, of course, your good ol' non sense speaks up and says, t are you going to do when you get home? You can't go four-wheelin' s all the neighbors' lawns."

more than a hill climber and mp fox. Ramcharger can also omfortable station wagon with lots om and soft seats. And its short ng diameter makes tight spots easy out of.

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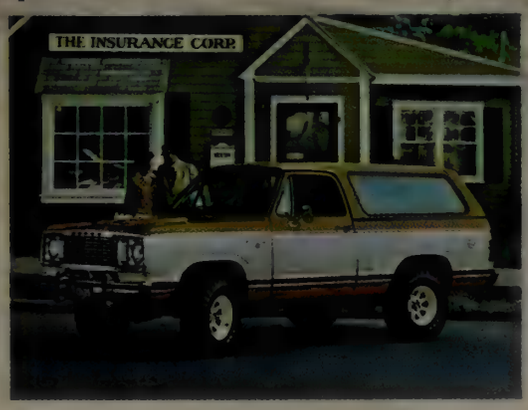

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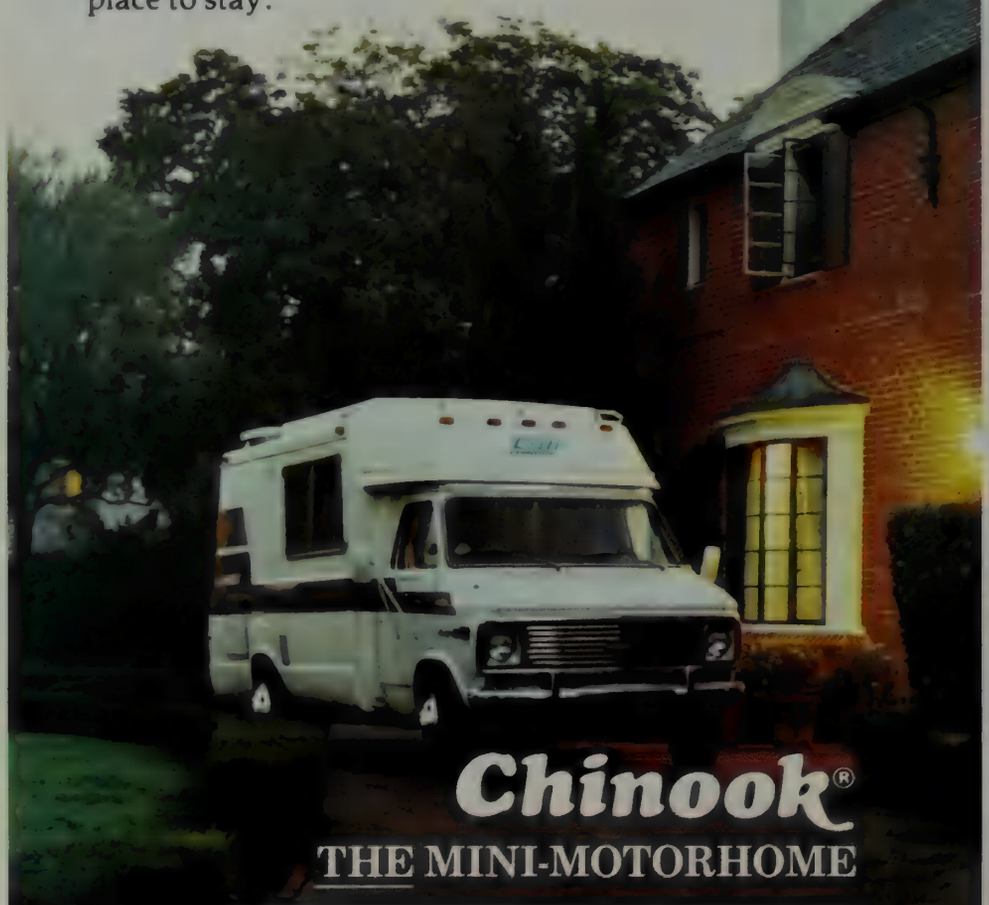

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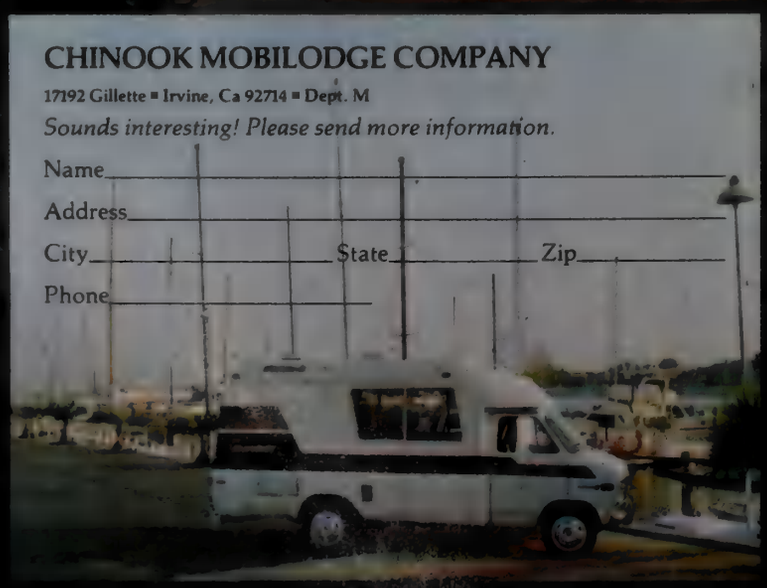


The Chinook is not inexpensive. We're proud to build a product of uncommon quality. You'll be proud to own one.

Berkeley. Each class is limited to 2 persons and starts with a 3-hour pre aration on campus. The first class stress rafting basics and takes you to the Ame ican River on April 30, May 1, and Ju 24 and 25. Two units credit for t quarter. The cost: $105.

The second class rafts the Klamath Riv from July 24 to 27. With inflatab kayaks, students learn to make rescu and repairs and prepare for the tin when they will be comfortable voyagi on their own. To enroll, some bas water experience is necessary. The co is $190. Three units credit.

UCLA instructors in natural history w lead four trips for James Henry Riv Journeys. The first deals with the natur history of Hells Canyon on the Snal River: 6 days starting July 31 and Augu 9, for $375. The second rides the Rog River for 4 days leaving on June 24 a July 1, at a cost of $280. Three un credit in biology.

These fares include all ground costs fro the nearest airport. For information the UCLA trips, write to Extension D partment of Biological and Physical S ences, 6115 Math Science Building, L Angeles 90024, or call (213) 825-709

Biology, archeology, geology tours

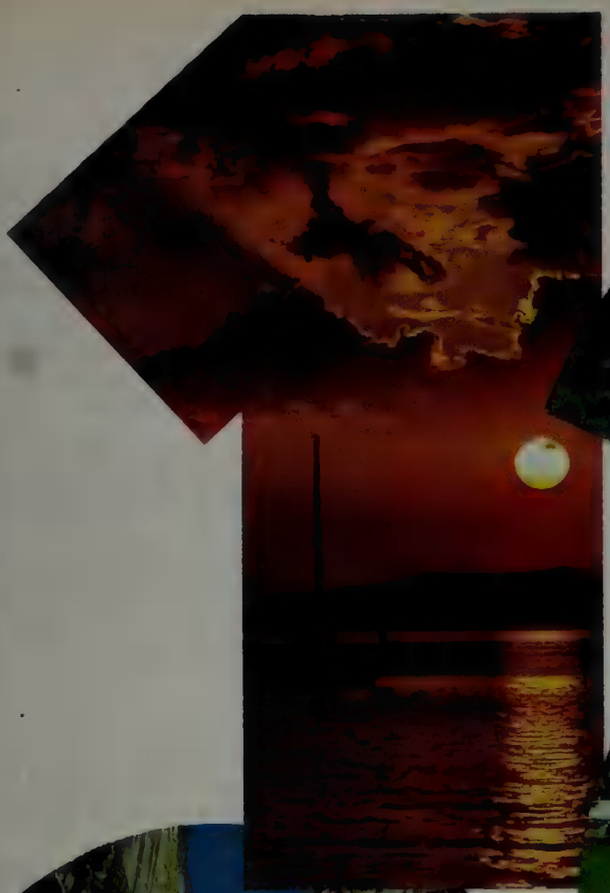
Archeology of the Green and Colora rivers will be emphasized on a series 6 and 7-day trips. Groups of no mo than 20 will study the ruins of the An sazi and Fremont Indian cultures. Tri (6-day, $290, and 7-day, $320) will lea on June 13, 27, July 10, 31, and Augu 21 from Moab, Utah. Write to Americ River Touring Association, 1016 Jacks St., Oakland 94607, or telephone (41 465-9355.

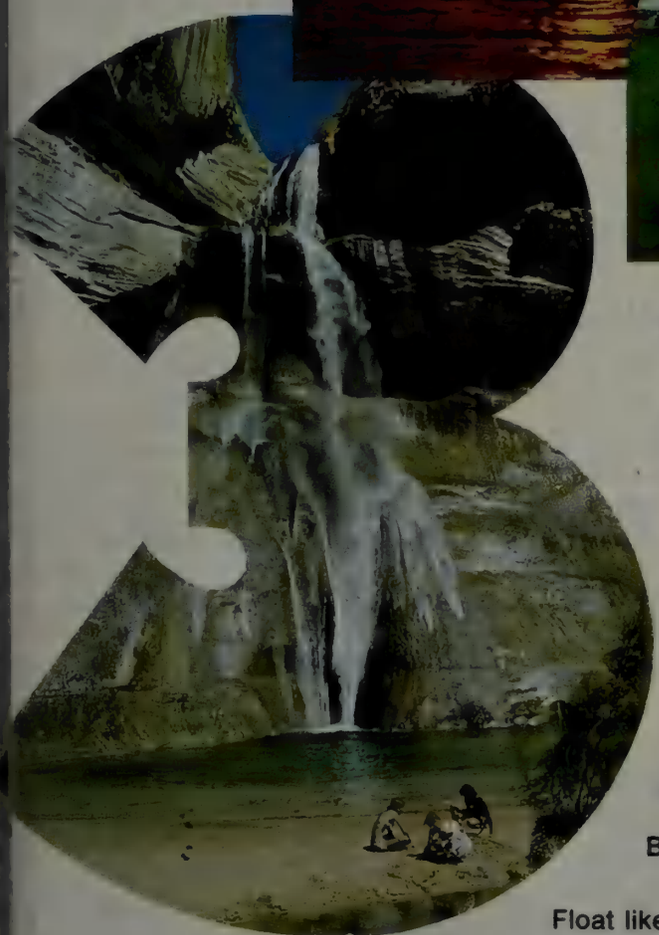
Interpreters from the Museum of Nort ern Arizona cosponsor trips that inclu transportation to and from Flagstaff. A archeologist (April 23 and 24) and a g ologist (May 7 and 8) lead tours on t San Juan River. The cost: $55.

Two tours will also visit the Grand Ca yon. A 12-day geology expedition tak off August 8 and costs $575. Another, hiking and float trip, May 20 to 26, co $250, and looks at canyon biology. combination biology and geology outi costing $75 is scheduled for June through 22 on the Dolores River. T trips are organized by Grand Cany Youth Expeditions, Route 4, Box 75 Flagstaff, Ariz. 86001; (602) 774-81

Young people's raft trips

Grand Canyon Youth Expeditions (a dress above) also sponsors extended tri that teach boating basics, including wa rescue and wilderness survival, to 16 25-year-olds. Trips are limited to 16 a cost $575. Participants go down t Grand Canyon for 18 days starting M 30, July 4, and July 27.





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Council Hall, Salt Lake City, Utah 84114

PETER O. WHITELEY

No gloves or helmets *for women players. Their games allow no contact and have more passing than the men's*

Lacrosse comes West . . . where to see major spring tournaments

Ever since it was adapted from an Iroquois game, lacrosse has been mainly an East Coast sport, with pockets of popularity in college towns elsewhere.

Now it's on the rise in the West. It's being played in grade schools, high schools, colleges, and at club levels by both men and women. This spring there are several major tournaments as well as many regular league games.

An exciting spectator sport with lots of movement and body contact, lacrosse is like a combination of soccer and ice hockey. There are four 15-minute quarters in the game and the action is nearl continuous.

The players on the 10-man teams crad the hard rubber ball in the webbing c their sticks and pass it back and fort with surprising speed and precision i complex plays similar to those in baske ball. Once a player is open, he tries t shoot, bounce, or even kick the ball int the 6-foot-square goal.

The playing area is somewhat larger tha a football field. Two goals set 15 yards i from the end lines are within an 18-foo diameter circle called the "crease." Op posing players are not allowed in th area, much to the relief of the often h rassed goalies.

Though the competition looks fierce, th atmosphere at games is casual. Loungi on the grass is a major spectator pastim so bring a blanket and a picnic lunc Admission is usually free.

The major tournaments this spring ar

April 2 and 3 at Stanford (by Maples Pavilion): Western States Tournament, including North-South Women All-Star Game

May 7 and 8 at University of Washington: Pacific Northwest Tournament; finals, Husky Stadium

June 4 at UC Irvine (football stadium): California State Championship and Colle North-South All-Stars

June 5 at UC Irvine (football stadium): Club North-South All-Stars

For more information on these and oth games, write to the Northern Californ Lacrosse Association, 1185 Chestnut S San Francisco 94109; or the Southe California Lacrosse Association, Roc 4109, 15235 Santa Gertrudes Ave., Mirada 90638. In the Northwest, wr to Bill Dickinson, 6306 Ravenna A N.E., Seattle 98115.

BOB HESS

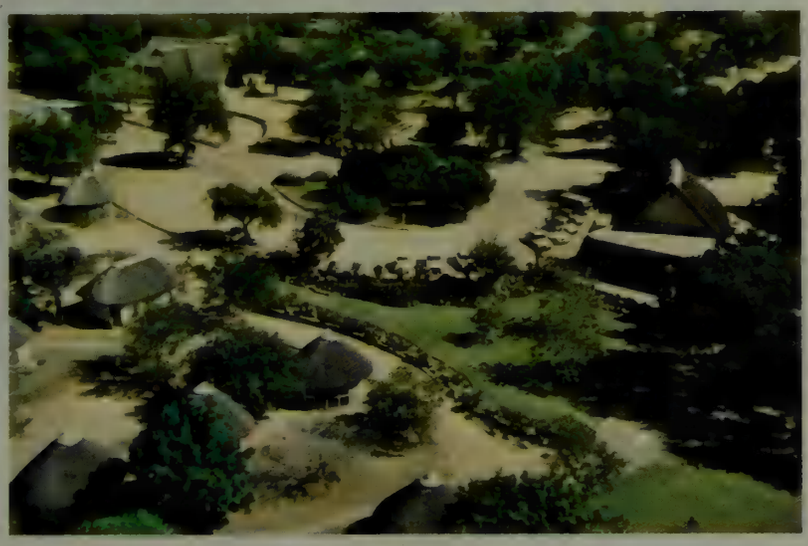
Attacker *fires shot at goal in high school game in Novato, California. A hard shot can come rocketing in at close to 100 mph*

CRAIG AURNESS

Defender *raps attackman on stick to jar ball loose in college game at Santa Barbara*

Goalies *need fast refle and high threshold of p to block shots with b*

More tourists
are visiting



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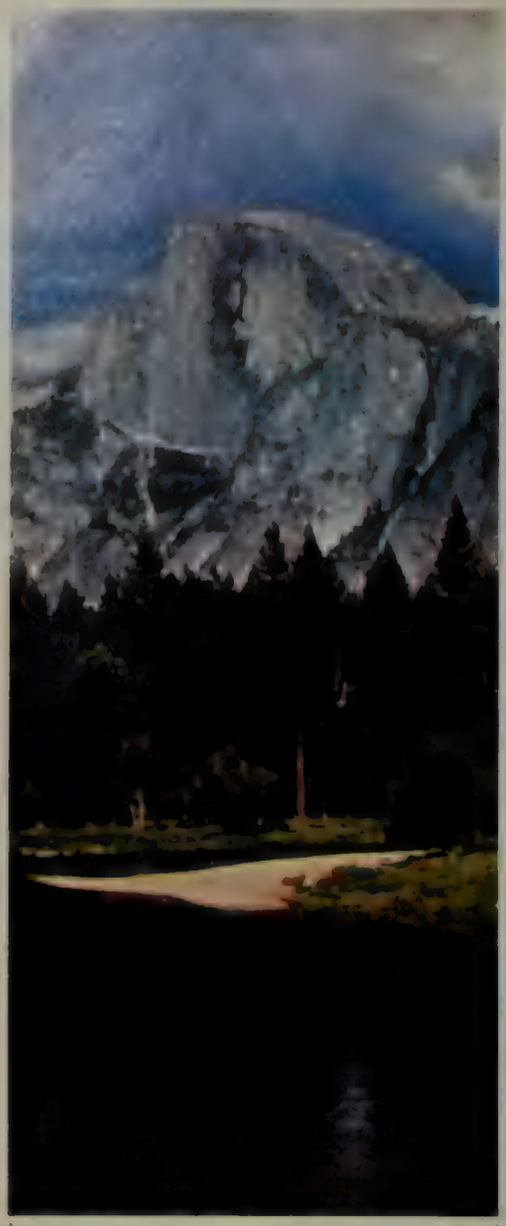

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For reservations information, call (209) 373-4171 today. Or see your travel agent.

Yosemite

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NORMAN A. PLATE

Arched windows *and balconies overlook pool and plaza at 226-room Aristos Hotel in Ixtapa*

Mexico's brand-new Ixtapa resort is off and running

Unlike many of the established resorts along Mexico's Pacific Coast, Ixtapa (ess-*tah*-pah) did not start out as a tiny fishing village. Just a few years back, it was merely a lonely, jungle-mantled stretch of coastline about 125 miles northwest of Acapulco, undeveloped and uninhabited (except for an occasional fisherman's camp).

Then the Mexican Government selected this 24-mile-long stretch of white-sand beaches, rocky headlands, and wave-splashed coves as one of several sites ideal for new tourist developments.

A national trust known as FONATUR was created to plan and develop the selected areas. Cancun, over in Yucatan, was the first; Ixtapa is the second.

When *Sunset* reporters visited Ixtapa last October (just after a disastrous hurricane swept this section of the Mexican coast), they found a vast construction project reminiscent of one of the great WPA projects of the 1930s. Earth-moving equipment rumbled along the roadways unhindered by the weather

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NORMAN A. PLATE

On the fifth green *at the resort's Palma Real course, he's tapping in a 5-foot putt*

Palm-thatched *palapa shades a visiting family at the Playa Palmar. Uncrowded beaches, interrupted by rocky headlands, offer excellent swimming, sunbathing, and shell collecting*

This summer, come with Canadian Pacific aboard a ship that cruises the Inside Passage like few other ships can: right up close.

More than 2,000 miles of spectacular scenery. It's glaciers, whales, Northern Lights, 6 wild and woolly frontier towns, and much, much more.

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supply depots were stacked high with crates of building materials, construction workers scrambled over the skeletal structures of new buildings, and everyone seemed incredibly, breathlessly busy.

The carefully planned, step-by-step development of the Ixtapa resort community (housing, schools, hospitals, hotels, and local industry and agriculture) will continue for many years. But already you'll find a major new airport, two resort hotels in full operation (a condominium complex and lower-cost family hotel will open later this year), a shopping and crafts center, and an 18-hole golf course designed by Robert Trent Jones, Jr.

If you've ever visited the fishing village of Zihuatanejo, you may already have seen the site of Ixtapa. Playa Palmar, the central beach at Ixtapa, has long been a favorite day-trip destination for Zihuatanejo excursion boats. The village itself is in fact part of the development plan; it will share the new airport (10 miles south of Zihuatanejo) and some maps now identify the coastal community as "Ixtapa-Zihuatanejo."

The FONATUR plan calls for Zihuatanejo to retain its distinctive character, but it is no longer the remote and roadless "undiscovered gem" that *Sunset* first reported back in 1957. The modern highway between Ixtapa and the airport sweeps around Zihuatanejo in a series of interchanges, traffic circles, and landscaped medians; and newly paved roadways, parking areas, and pedestrian walkways penetrate the village proper.

Even tiny neighboring Agua de Correa has been transformed almost overnight from a kerosene-lighted hamlet of mud-puddled alleyways to a night-bright community whose central plaza and paved

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Toughness. That's what Blazer is all about. With two walls of steel in the hood, front fenders and body sides. Big available 2- and 4-barrel V8s and a dependable Six. Braking systems that are computer-matched to GVW ratings. And much more.

Chevy toughness goes right to the top. The front section of the Blazer roof is made of steel. And a removable fiber glass-reinforced plastic top encloses the rear area. With front bucket seats and available rear seat, Blazer can seat up to five passengers and still handle 14.1 square feet of luggage. Remove the available rear seat and there's room for more than 31 square feet of cargo. Even when carrying a full load, Blazer offers high ground clearance.

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Save gasoline...save lives. Drive no faster than 55 mph. Please.
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NORMAN A. PLATE

Workman *fills swimming pool at 315-room El Presidente Hotel just before opening last fall*

roadways are illuminated with brilliant mercury-vapor street lights.

By air from Mexico City, by road from Acapulco

At present, the only air service to Ixtapa is from Mexico City (a 45-minute flight): Aeromexico has two round-trip flights every day except Tuesday and Thursday, when there's just one; Mexicana makes the round trip every evening except Tuesday and Thursday. Car rentals, as well as taxi and bus service to all hotels, are available at the new airport.

You can also drive to Ixtapa from Acapulco on all-paved Highway 200. The drive takes about 4 hours and winds up the coast through vast banana and coconut plantations. Express bus service to Ixtapa-Zihuatanejo leaves Acapulco once every morning and again in early afternoon; the ride takes about 5 hours.

The effect of peso devaluation

Just how much will your dollar buy in Mexico? The recent devaluations of the peso should help. Hotel, restaurant, and shop prices tend to float up as the value of the peso goes down, but the dollar's increased purchasing power has kept ahead of the price increases. In other words, prices quoted in pesos are going up, but the cost of goods and services in actual dollars is going down. In a first-class hotel, your dollar will buy about 10 percent more; in more modest hotels, restaurants, and shops, perhaps up to 25 percent more.

On a recent post-devaluation visit, *Sunset* reporters noted that hotel rates, prices on menus, and price tags on merchandise were being altered frequently to reflect current exchange rates. Prices given in guidebooks and brochures may be outdated by the time they are printed. Verify current prices with your travel agent and expect to make some adjustments (possibly in your favor) after you arrive.

For more information, write to the Ixtapa Information Bureau, 633 Third Ave., New York 10017. □

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DARROW M. WATT

Closed up: *This trailer is just 53 inches high—easy to tow, with low wind resistance. He's lifting the tongue off the hitch*

Going up: *Crank raises telescoping corner supports. Roof rises to expose canvas walls. Board supports tongue wheel on soft ground*

Open wide: *Small towing package expands into big camp home that can sleep six comfortably. Main bunks are in slide-out end wings. Optional awning shades the pull-out stove and sink at left*

Tent on wheels

Easy to tow, with pop-up space for sleeping and cooking. Today you have many choices in size (11½ feet and longer), price ($1,200 up), options

Camping trailers—those pop-up, fold-out vehicles that become an elaborate tent on wheels—have never really caught on before in the West: Camping enthusiasts here have preferred roughing it with a tent, or have opted for full-scale trailers or motorized rigs. But that seems to be quickly changing, as more outdoorsmen discover these versatile trailers as a middle-course way to go.

Like the bigger rigs, they provide more comfort and convenience than a simple tent, and they let you pack up quickly and move on. But they're a lower-priced alternative for young families who aren't ready for an extra motor vehicle just for camping, and some of the smaller models are practical for towing behind the many popular small and mid-size cars.

The basic design is simple enough: You

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The airline most people fly to Mexico.

DARROW M. WA

It's surprisingly roomy *and practical. Canvas zips down to expose windows. Kitchen counter lifts to work height (a roof vent carries out cooking fumes). Bunk at rear holds two and dining area can convert to extra bunk. Equipment stows under seats in cabinets, and in aisle when trailer is folded up*

Range of sizes *is great. Left: 12-foot unit, good for compact cars, extends on sides to sleep four. Right: 18½-footer opens to 22 feet, sleeps up to eight. Jacks at corners lower for steady footing*

just crank up the roof and slide out the foam-padded end wings that form the main sleeping space. But some small marvels of engineering—much improved in the past few years—help convert such a small towing package into an ample living area. In use, counters are at full working height but then lower or hinge down into the aisle to let the trailer return to its lowest profile.

A lot goes in a little space

Every available corner is designed for storage (but total storage space is cramped when the top is down). Some components do double duty: Dining areas convert to additional bunk space, some stoves and sinks can be pulled through the wall for use on either side, and inside tables can be moved out. (On the road, your whole family has to ride in the towing vehicle.)

You have a good choice of sizes. Most are just 44 to 58 inches high for towing, giving adequate rear visibility and low wind resistance (they're helped along by the partial vacuum behind large cars). They're easier than most camp vehicles to stow out of sight. Folded-down lengths vary from 11½ to 18½ feet, including the trailer tongue; opened up, they range from about 12 to a whopping 24 feet (manufacturers say the big models can sleep eight or nine, but it's a tight squeeze). Most open to 6 feet, 5 inches of headroom. You might be surprised at how small a trailer can meet your needs.

Almost all have heavy-duty canvas walls that zip open in sections to expose vinyl windows or netting. Doors are solid, framed with aluminum. Some manufacturers substitute insulated plastic sidewalls with slide-open windows; they're more secure, easier to maintain, quieter in high winds, but somewhat heavier and costlier.

But what's the cost?

The range of list prices is wide: $1,000 to $3,800. A mid-size, reasonably equipped rig averages about $2,500, plus tax. Most trailers have standard features in common: convertible bunk-dining space, hand-pumped water supply, bottled-gas stove, convertible 12-volt/110-volt power hookup, icebox, and plastic or cutting-board countertop. The biggest units have brake systems as standard equipment, a desirable option on all trailers.

Your purchase budget should allow room for these necessary options: spare tire, undercoating, bumper, and protective plates under vulnerable points if you

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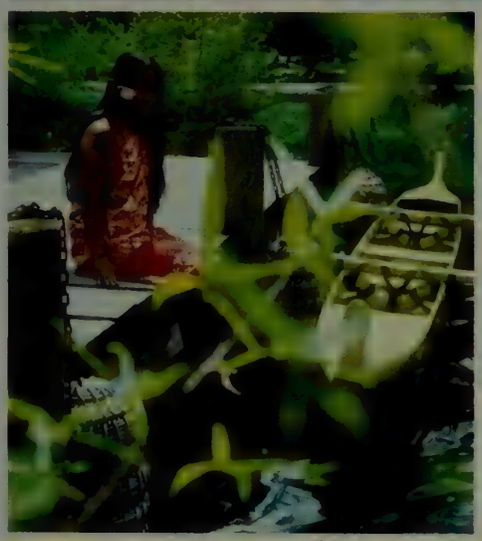

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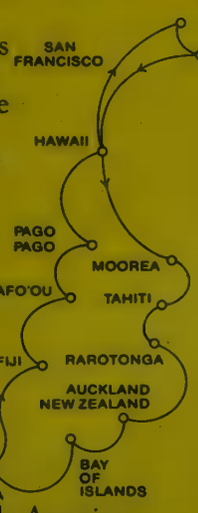

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UNITED AIRLINES

Solid-wall *version has plastic sides that swing up as roof is raised. All trailers set up quickly—handy in the rain*

DARROW M. WATT

Counter *hinges over, rests on legs in aisle when top is cranked down*

Frequent option: *Stove swings or pulls out, can be used outside or in*

Bigger units *have outside hatch to store chairs, the lift crank, and other items you want handy*

Large section *of sidewall on this unit swings down to provide large, lighted step*

favor rocky, off-road terrain.

Other, less necessary options: awnings (some with "add-a-room" canvas walls), extra battery, privacy curtains for the bunk wings, top-mounted small-boat racks, portable toilets. One large unit has a hot-water shower; several offer heaters, and gas or electric refrigerators that you may not need enough to warrant their cost ($300 or more).

Before you buy: things to consider

Trailer weight is an important purchase factor. Your car can pull only so much—the National Safety Council recommends that a fully loaded trailer not exceed half the weight of your car, or 10 times its horsepower. Camping trailers aren't made for the very smallest of compacts. Trailer weights range from 800 to 2,700 pounds, plus 300 to 1,200 pounds of cargo capacity. Assume you'll eventually be carrying full cargo and be sure you know the maximum towing weight your auto manufacturer specifies—otherwise you can severely (and dangerously) tax your car's cooling system, suspension, brakes, and tires.

Another factor is tongue weight—the amount of weight that actually bears down on your car; it's about a tenth of the weight of a trailer with a well-balanced load. Your hitch should be permanently mounted to the car frame, not the bumper, and preferably should be the "equalizing" type that distributes tongue weight forward through the car and back through the trailer to keep the car level and the load spread out. A hitch is more than just something to hang a trailer on: It substantially affects driver control and car operation. Check with a hitch specialist or a savvy trailer dealer.

Camping trailers require much less maintenance than motorized RV's—the roof crank system, brakes, and wheel assembly are the main points—but any trailer speeds wear on your car's own systems: brakes, steering linkage, tires. Check fluid levels (including battery) often, lubricate hitch ball and replace it when worn, inflate tires to a few pounds over normal (check your car's specifications). Be sure brake and electrical connections between car and trailer are secure.

If you trailer a great deal you'll have to lubricate, change your oil, and rotate tires more frequently than usual (about every 3,000 miles). And remember that a loaded trailer can lower your gas mileage by up to 20 percent.

Be sure you find a campground in time to set up the unit before dark.

To find the best size, floor plan, and trailer options, shop widely before you buy. Some dealers rent good camp trailers for about $100 per week—a good way to get to know how well that kind meets your needs. It's wise to buy your trailer from a dealer who's equipped to make repairs, or who can tell you specifically who can.

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How to find the great camping spots in the West

Finding the right spot means everything when you head outdoors. It can assure you a *great* experience instead of disappointment.

Sunset's new 1977 *Western Campsite Directory,* completely revised and updated, helps you plan the best possible trip. It pinpoints 6,000 campgrounds and RV parks on locator maps, tells all about facilities, fees, attractions, the surrounding country, and boating waters. It gives you phone numbers and mail addresses where reservations are taken.

NEW FOR '77—DISCOVERY TRIPS

A major feature in this new edition gives you ideas and directions for dozens of great discovery trips you can take in the Western states, British Columbia and Mexico—Baja for backpacking, rockhounding, boating, and sightseeing.

It also has a big section on camp food ideas, and provides you with a whole raft of information on backpacks, snow camping, wilderness permits, hunting and fishing regulations, and much more.

You'll find *Campsites* at most bookstores, sporting goods departments, and trailer supply stores in the West. Or if you want us to mail it to your home, send your check in the amount of $3.95 plus 55¢ for postage and handling, total $4.50. *California residents add 24¢ tax.* Mail to: *Campsites,* Lane Publishing Co., 80 Willow Rd., Menlo Park, CA 94025.

BILL ROSS

Boat ride *through the bird sanctuary passes flock of sleepy flamingoes*

Now it's the Busch Bird Sanctuary

After a brief closing in December to shut down its amusement rides, Southern California's Busch Gardens has reopened as the Busch Bird Sanctuary. You still tour the famous Van Nuys brewery and gardens and enjoy the exotic bird collection—but now without all the amusement park crowds.

On the 20-minute boat ride ($1 for adults, 50 cents for children 4 to 11 years old) winding through ¾ mile of waterways, you'll see a collection of 1,500 birds (over 175 species) living in tropical and lake habitats. A birds-of-prey island is home to golden eagles, red-tailed hawks, and greater horned owls injured in the wild. Macaws pose in an area just opposite the sanctuary's Gaslight Theatre; trained cockatoos put on a show every hour in the theater.

And the monorail ride through the brewery is still a boggling look at millions of gallons of beer sudsing its way through various stages of production.

The Busch Bird Sanctuary is open Wednesday through Sunday, 10 to 6. Admission is free; parking costs $1. To get there, take the Roscoe Boulevard exit off the San Diego Freeway and go west to the Roscoe entrance. ▫

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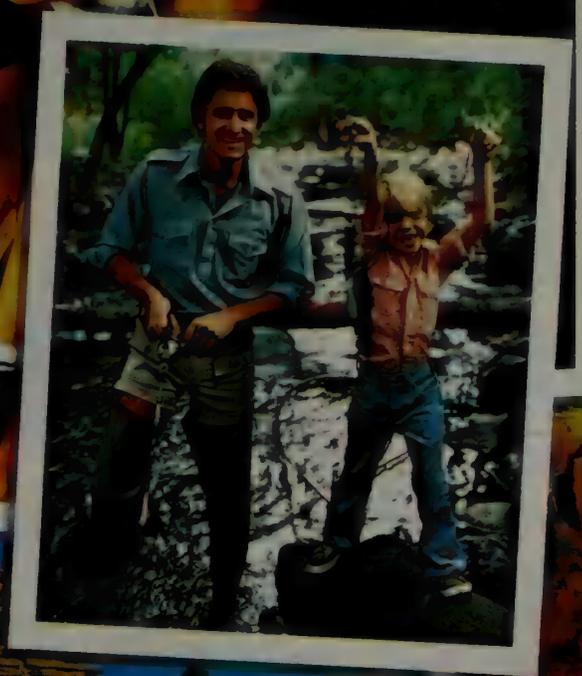

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Where and when to watch polo

lanning to see a polo match? On pages 00 and 101 we show what it's like from ıe spectator's viewpoint, and we talk ɔout tactics, rules, and ratings.

ere we list the Western clubs of the .S. Polo Association, their field locaons or addresses, and tournaments heduled for the year so far. In the acific Northwest Circuit, the season sts roughly from May to September. lubs in the Pacific Coast Circuit have n official March-to-September season, ut many play nearly year-round. Arıona's Border Circuit club, limited by ot weather, plays January to April.

ou can watch games at 1 P.M. every aturday and Sunday (weather permitng) during the circuit's season. On tourament days, action begins at 11 A.M.; rrive early for a prime viewing spot. Inless noted, all matches are free.

acific Northwest Circuit

ASHINGTON: *Spokane Polo Club,* Sunet Highway (Pacific Northwest 12-goal: ugust 27 and 28). *Tacoma Polo Club,* Vood Ranch, Hart Lake Road (Daffoil Cup: June 11 and 12).

REGON: *Dead Horse Polo Club,* 21085 notts Road, Bend. *Bellingham Polo lub,* Emil de Wilde Ranch, Pole Road, ellingham. *Portland Polo Club,* Lake swego Hunt Club, 2725 S.W. Iron ountain Boulevard, Lake Oswego.

acific Coast Circuit

ALIFORNIA: *Carmel Valley Polo Club,* 150 Carmel Valley Road, Carmel. *entral Valley Polo Club,* fairgrounds olo field, Turlock. *El Dorado Polo lub,* 46755 Cook Street, Indian Wells. *ountain Grove Polo Club,* 3610 Menocino Avenue, Santa Rosa. *Headlands olo Club,* Route 1, Carmel. *Menlo Polo lub,* Circus Club, 190 Park Lane, therton. *Robert Louis Stevenson chool,* Carmel Valley Road, Carmel. *anta Barbara Polo Club,* 3377 Nidever oad, Carpinteria (Pacific Coast Open: une 5 to 19). *Wild Horse Polo Club,* Vild Horse Valley Road, Napa. *Will ogers Polo Club,* 14253 Sunset Bouleard, Pacific Palisades (Will Rogers Meorial: October 7 to 9). *UC Davis,* questrian Center Polo Field, Davis October-to-March season).

AWAII: *Hawaii Polo Club,* Farrington ighway (State 99), Mokuleia Beach, ahu (admission adults $2.50, children ee). *Waikoloa Club,* Kamuela, Hawaii.

order Circuit

RIZONA: *Pima County Polo Club,* 1300 S. Houghton Road, Tucson. □

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Almost deserted, *Sunset Beach on a calm day is pleasant for waders but discouraging for board-toting surfer*

Harmonious blen
landscaping
architecture n
Byodo-In Ter
a pleasant ret

The other Oahu

An hour or less from Honolulu, on the windward side of the Koolau (*ko-oh-lau*) Mountains, it's still the old Hawaii, uncrowded, unhurried, rural, beautiful

GLENN CHRISTIANSEN

Windward forest *beneath Koolau Range is laced with riding and hiking trails*

Three kinds of bananas, *papayas, mountain apples, and mangoes tempt shopper at Waiahole fruit stand*

Wipe out *is when surfer and board part company—here, on the foamy crest of a north-shore wave*

The rugged mountains behind Honolulu are more than just a picturesque backdrop for the high-rise hotels along Waikiki. On the other side of the range is a part of Oahu that most Honolulu visitors would hardly guess existed.

Separated from Honolulu by the Koolau Range (see map on page 81), the north and windward shores retain much of the atmosphere of old Hawaii. Uncrowded and unhurried, some small communities edging the coast are over a century old, with rickety, wood-fronted general stores selling everything that residents can't grow in their gardens or catch in the sea.

Along with this rural life style you'll find one of the largest concentrations of public beach parks in Hawaii. Some are for swimming and snorkeling, some are for surfing, but all offer visitors ample access to the shore.

Combine the country atmosphere and variety of beaches with opportunities for hiking and horseback riding, as well as a number of Hawaii's most popular visitor attractions, and the north and windward shores become attractive alternatives to cosmopolitan Honolulu.

Using the city as a base you can circle the island in a day,

Kualoa Point, *one of windward Oahu's newest beach parks, is a long band of palm-dotted grass between the mountains and the sea. It's a popular local gathering place*

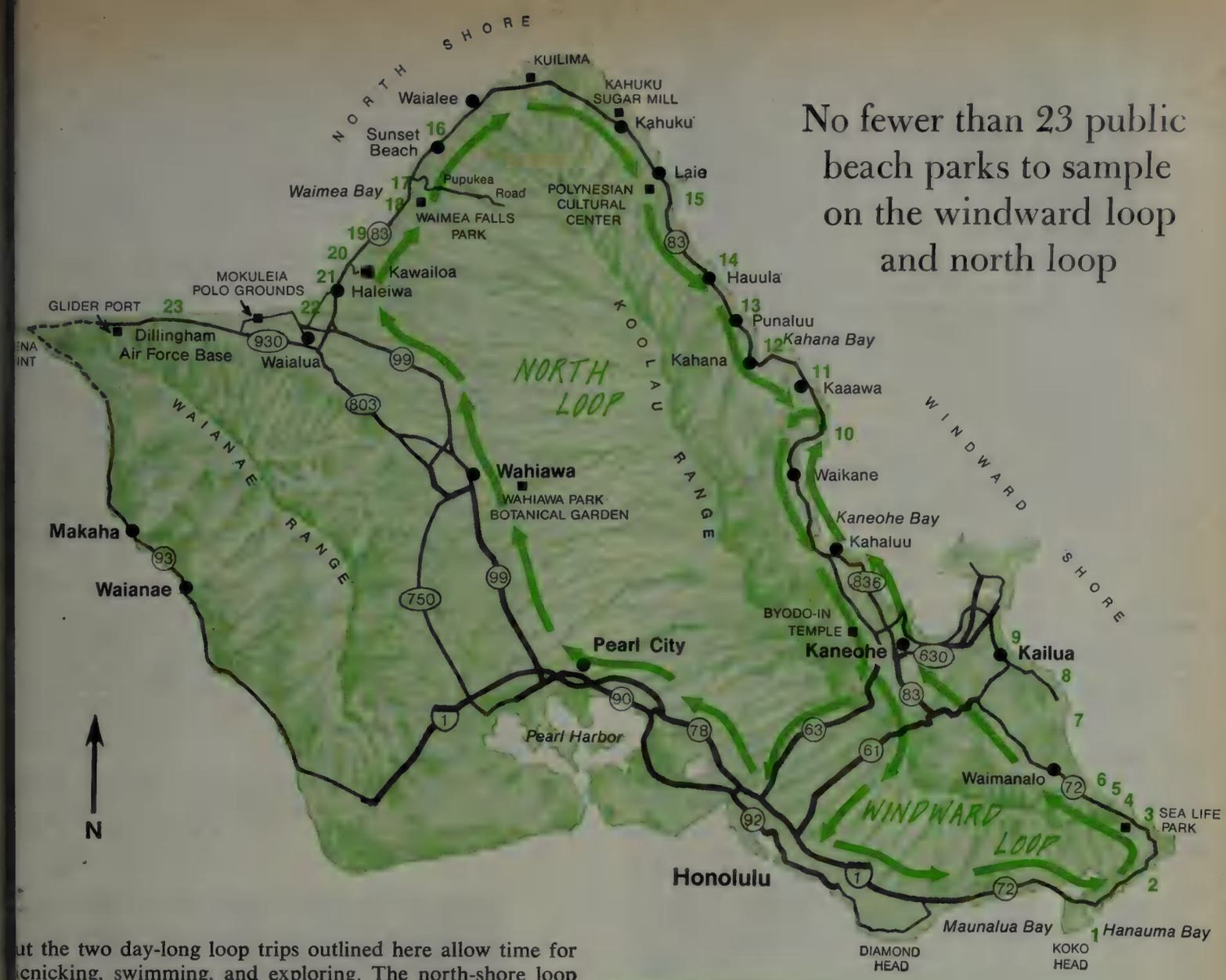
Boat harbor *near Haleiwa Beach Park is a layover for sailboats cruising the Pacific*

GLENN CHRISTIANSEN

Shielded from waves *by a barrier reef, snorkelers watch fish in clear Hanauma Bay*

Rugged headlands and island *near Makapuu Beach Park are scenic inspiration for the canvasses of local landscape artists*

No fewer than 23 public beach parks to sample on the windward loop and north loop



ut the two day-long loop trips outlined here allow time for icnicking, swimming, and exploring. The north-shore loop ın be further broken into a two-day outing with overnights the deluxe Kuilima Hyatt Resort Hotel, the Laniloa Lodge Laie, or a condominium unit at Pat's at Punaluu.

he biggest surprise of outer Oahu is the number of public each parks. The chart lists 23 parks (numbered on map) we ırveyed and rated for visitors with normal swimming skills; half dozen parks with dangerous or polluted waters aren't sted. Our ratings are approximate—when in doubt consult lifeguard before entering the water. You can picnic on any ublic beach; our check marks show places with tables, rest-ooms, and water. Campers must have a permit. For a list of l Oahu beach parks and camping permits, write to the De-artment of Parks and Recreation, Honolulu Municipal uilding, 650 S. King St., Honolulu 96813.

spiring bodysurfers can obtain a free brochure on technique nd suggested locations by writing to the University of Hawaii ea Grant Marine Advisory Program, 2540 Maile Way, 52-B Spalding Hall, Honolulu 96822. For National Weather ervice surf reports, call (808) 847-1952.

here are bus tours of the island that include stops at some isitor attractions (your travel agent can make reservations). ut for most travelers, a rental car is best; a compact costs bout $15 to $25 per day including mileage. (Be sure to take luables with you whenever you leave the car.)

he adventurous can try "TheBus," public transportation at is the best bargain on Oahu—just 25 cents for a ride ound the island. An excellent booklet, *See Oahu via "The-us,"* by Milly Singletary (1655 Makaloa St., Apt. 610, onolulu 96814; 1976; $1.25) tells you how to get around, you can telephone 531-1611 for a specific schedule.

he windward loop outlined next is about 50 miles, the north

Windward and north-shore beach parks	Lifeguard	Swimming	Snorkeling	Bodysurfing	Board surfing	Picnicking	Camping
1. Hanauma Bay	✓	E	E			✓	✓
2. Koko Head (Sandy Beach)	✓			[illegible][2]		✓	
3. Makapuu	✓	P	F[1]	E[1,2]		✓	✓
4. Kaupo		G	G		G	✓	
5. Kaiona		F	F			✓	✓
6. Waimanalo	✓	E	G		F[2]	✓	✓
7. Bellows	✓	G		G	F[2]	✓	
8. Kailua	✓	E	G				
9. Kalama Beach		E		G[1]	F		
10. Kualoa Point		G	G			✓	✓
11. Kaaawa	✓	G	G			✓	✓
12. Kahana Bay	✓	G		F[2]	E[2]	✓	✓
13. Punaluu		G	G			✓	✓
14. Hauula	✓	P	F			✓	✓
15. Pounders		P[2]		E[2]			
16. Sunset Beach		F[1,2]	P		EX		
17. Pupukea		P	G			✓	
18. Waimea	✓	G[1]	F	G[2]	EX	✓	
19. Chun's Reef, Kawailoa		P	F		G[2]		
20. Laniakea Beach, Kawailoa		P	G		F[2]		
21. Haleiwa	✓	G[1]	F		G[2]	✓	✓
22. Waialua (Alii Beach)	✓	P	F		E[2]	✓	
23. Mokuleia		G	G			✓	✓

P = Poor F = Fair G = Good
E = Excellent EX = Excellent, but for experienced surfers only

1 Watch for dangerous current
2 Small surf—beginners OK; big surf—experienced only

long about 75 miles. Drive cautiously—roads are slow, occasionally narrow, and can be busy on weekends.

Windward loop . . . beyond Koko Head

Heading east out of Honolulu on Interstate H-1, the freeway passes Diamond Head and narrows into two-lane Highway 72, then climbs behind Koko Head to the turnoff to Hanauma Bay. Sheltered by a large reef, the bay is one of Oahu's safest, and most popular, swimming and snorkeling beaches.

From Hanauma Bay an informal trail leads along the black volcanic bluffs past the Halona Blowhole (drivers can pull off the road here to watch) to Sandy Beach Park. Pounded by an unpredictable surf, the trail is popular with local fishermen who *always* keep a wary eye on the sea.

Across the highway from the crescent of Makapuu Beach is the entrance to Sea Life Park, open daily from 9:30 to 5. A variety show starring trained dolphins, penguins, and a pair of 1,600-pound false killer whales is the main attraction, but don't miss the Hawaiian reef tank with more than 2,000 specimens of tropical marine life. Admission to the park is $3.95 for adults, $2.25 for children aged 7 to 12.

Beyond Waimanalo is the turnoff (Kumuhau Street) to Camp Olomana, where you can rent horses for $5 per hour and ride into the mountains. Call 259-9441 for reservations.

Where Highway 72 dead-ends into Highway 61, you can turn right for an uneventful tour through Honolulu's bedroom communities of Kailua and Kaneohe or turn left and follow Highway 83 (Kamehameha Highway) straight into Kaneohe.

Here the road becomes Highway 836 and dips down to the edge of Kaneohe Bay past Ulu Mau Village, a reconstruction of an early Hawaiian village (usually open from 9 to 3:30; admission $1.75). Glass-bottom boats were once a popular attraction on the bay, but pollution has increasingly clouded the water and has killed much of the coral.

About 2 miles beyond the junction of highways 836 and 83 is the Waiahole Poi Factory (closed Sunday and Monday), a small shop in a converted poi factory that is trying to foster old Hawaiian crafts. Items for sale include ceremonial masks and feathered *'uli 'uli* (rattles) made by hand in the traditional way. Next door a small stand offers an amazing selection of local fruit (you pass papaya groves along this section of road).

If you're here around lunchtime, drive 3 more miles to Kualoa Point, a new beach park in a spectacular setting with good swimming and picnic facilities.

Heading back on Highway 83, allow time to drive into the Valley of Temples. Hidden in the hills of this 500-acre cemetery is the Byodo-In Temple, a replica of a 900-year-old temple in Uji, Japan. Ring the enormous brass bell, whose deep tone is said to cleanse the mind of evil and temptation, then take off your shoes and enter the temple to see an immense gold and lacquer Buddha. If you're lucky, Mr. Hisayoshi Harada will be there to explain the history of the temple and feed some of the 10,000 koi that inhabit the pond surrounding it. The temple is open daily from 9 to 4:30.

From here it's a ½-hour drive back to Honolulu.

North loop—the varied north shore

Driving west from Honolulu on Interstate H-1, turn north on Highway 99 to cross the island through pineapple and sugar cane fields and join Highway 83 near the north shore.

To the left, Highway 83 meets Highway 930 leading 7 miles to the glider port at Dillingham airfield. A 20-minute glider ride costs $18 for one person, $25 for two (reservations not needed); on a clear day this flight offers exceptional views. A few miles past the airfield the paved road turns to dirt that is usually impassable. Backtracking on Highway 930 you'll pass the turnoff to the polo grounds at Mokuleia; on Sundays you can watch a match (see page 77).

Back at the junction follow the signs into Haleiwa, where claptrap wooden storefronts and rusty tin roofs have resisted the onslaught of the 20th century. Today, boutiques, art galleries, several restaurants, and grocery stores make this a favorite stop. Haleiwa also claims to be the home of shave ice—a paper cone with shaved (not crushed) ice soaked with your choice of flavoring. It seems to be the favorite refreshment when holding down a bench on a shady storefront veranda.

Heading northwest out of town on Highway 83, your first stop is Waimea Beach Park. When surf is down, this is a good swimming and bodysurfing beach; when the surf is up (and it could be this month) you can watch expert surfers.

Just beyond the beach is the turnoff to Waimea Falls Park, where an arboretum containing native Hawaiian and other tropical plants is being developed in the Waimea Valley. The first European landing on Oahu was here in 1779; at that time more than 1,000 Hawaiians lived in the valley. The ruins of several *heiaus* (shrines) are still visible. The park is open 10 to 5:30 daily; admission is $2 for adults, $1 for youngsters aged 10 to 15. Guided tours and tram rides to the falls, where you can swim and picnic, are free.

The sandy expanse from Pupukea north to about Waialee is known as Sunset Beach. The points, bays, and reefs along here—including Velzyland, Rocky Point, and Banzai Pipeline—offer some of the most challenging surfing in the world, especially when the surf runs 8 to 12 feet and the trade winds are blowing from east-northeast. By April the surf dies down until autumn, and swimming in some sheltered bays should be fair if you watch the currents.

After Sunset Beach you round the north tip of Oahu, passing fields of sugar cane, the posh Kuilima resort (where you can arrange to rent horses or take surfing lessons), and, 3 miles

Soaring *the ridge of the Waianae Range: Glider offers thrilling ride and north shore views on a clear day*

Jumping rock *at Waimea Bay offers gutsy youngsters a chance to show off*

yond, the Kahuku Sugar Mill. A working plant since 1890, e mill closed in 1971, but was reopened last March as a mbined working museum and shopping arcade (see the ptember 1976 *Sunset*). You can wander through the shops d main mill floor for free, or take an hour-long guided tour the mill (adults $3.50; children aged 5 to 12, $2.25); it's en daily from 10 to 6.

earby Laie, a Mormon settlement for over 100 years, is e location of an impressive temple, the Hawaiian campus Brigham Young University, and the Polynesian Cultural nter. Last summer the center doubled in size, adding a w theater and visitor facilities, and expanding some of the hibits in its six Polynesian villages. It's open daily from 10 6:30; admission is $4.50 for adults, $2.25 for children nder 12.

bout a mile south of the center is Pounders, an excellent dysurfing beach—if the surf isn't too big.

rther south, past the pleasant beach, condominiums, and staurant at Punaluu, is Kahana Bay. This is a reliable spot r beginners to try surfing, but unfortunately there are no rfboard rentals here.

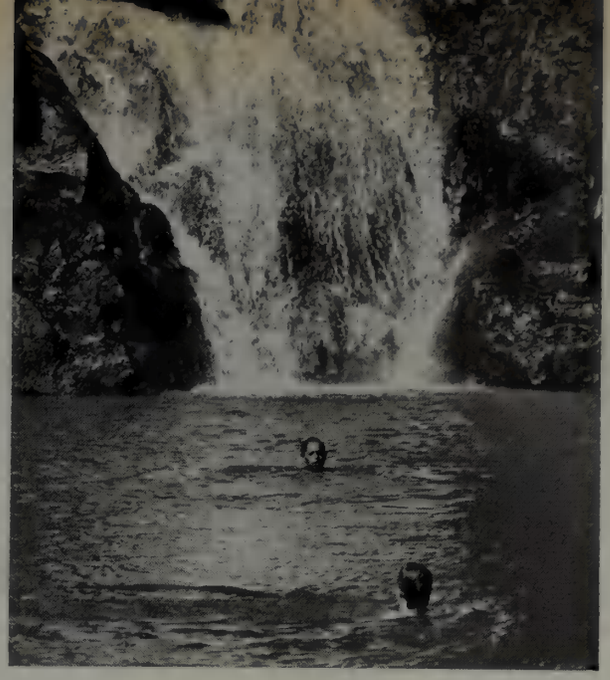
uth of Kahana Bay it's 5 miles to Kualoa Point, then about minutes south to Honolulu.

r more information

rite to the Hawaii Visitors Bureau (2270 Kalakaua Ave., onolulu 96815) or visit their office (2285 Kalakaua) for hedules of events and information on any of the commerl attractions on Oahu and the neighbor islands. Or write to e North Shore Visitors Association (Box 538, Kahuku, awaii 96731) for a brochure. □

Soaring, diving, dancing the speedy Tahitian hula, sampling your first shave ice

Grass-skirted visitor *at Polynesian Cultural Center gets impromptu lesson in Tahitian hula*



A dip *in the pool below Waimea Falls is one attraction of Waimea Falls Park*

Relaxing *at a Haleiwa store is a good way to enjoy the casual life style of rural Hawaii—and a paper cone of shave ice*

You enter the house *at the top level. Parking deck is 24 feet wide (like house) and serves as a bridge from house to street*

GLENN CHRISTIANSEN

Aluminum skin *wraps three sides of house. Left side is pierced only by a single bubble window. Note diagonal downspout*

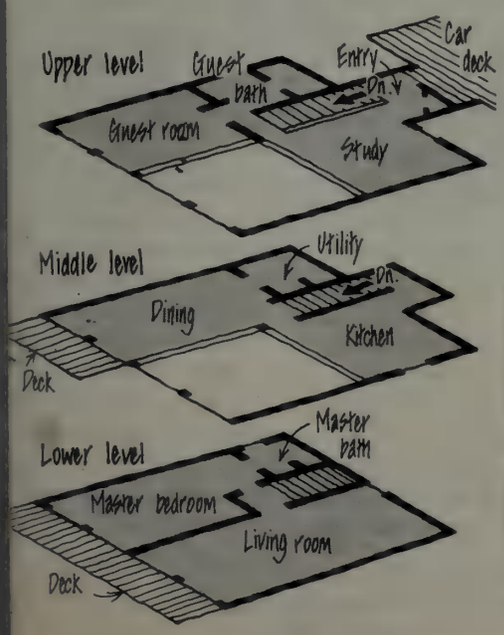
Inside the front door *you look down into dining area. Behind stained glass panel is guest room. Study is to the left*

Small is more

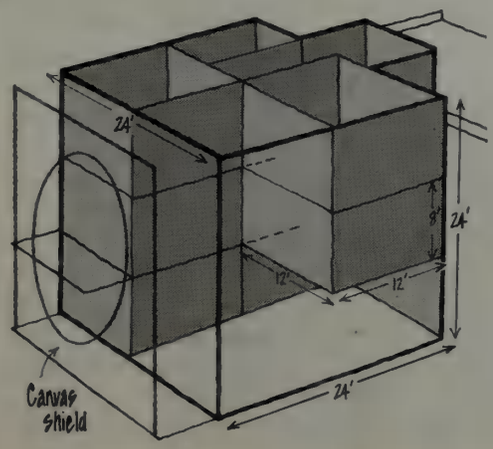
The basic house is a 24-foot cube containing modular 8 by 12 by 12-foot room units, 24-foot-tall open space, commercial-style corrugated metal skin, acrylic bubble windows

Dining area *beyond asparagus fern is on middle level, opens onto 6 by 12-foot deck. Guest room balcony is above. Railing at lower right extends into kitchen, has counter*

All three levels *of the house can be seen in this interior view. Above kitchen is study. Bubble window in kitchen is same one you see in exterior-view photograph at far left*



Stacked modules *12 by 12 feet square and 8 feet high make up this house. To avoid cramped feeling, all the main rooms share three-story open space. Canvas shield screens two outdoor decks*



Ordinarily, a house measuring only 24 by 24 feet would feel cramped, even as a multilevel structure. Not so with the house shown here and on our cover—its three stories are 12-foot square modules stacked like children's blocks. They're arranged three or four to a level (see sketches). Major rooms each occupy a complete block or more; less important spaces such as halls and baths share the space within a block.

The secret to the house's airiness comes from leaving out walls so spaces open onto one another both horizontally and vertically. Take a look at the photograph directly above, shot from the dining area. From here you can see into every level and all living areas. That's because the middle and upper-level blocks over half of the living room are just air.

Although the house is situated on a

Looking down from upper and middle floors to living room

Kitchen counter *narrows to 12 inches as it runs along railing. Close to dining area, it serves admirably as a buffet*

GLENN CHRISTIANSEN

Looking straight down *into living room from guest room you also see corner of kitchen and buffet counter. Two catwalks at right are for plant display, window washing, adjusting blinds*

steep, heavily wooded slope in the west Portland hills, its interior is amazingly light. All but four of the windows are on the downhill (southwestern) side of the structure.

Two of the exceptions—a diamond-shaped window in the study and a round one in the front door—face the parking bridge. And piercing each side of the house, in the kitchen and the master bath, is a 4-foot-diameter clear acrylic bubble. A skylight in the entry hall pulls daylight into the stairwell.

The downhill windows can all be shaded by Venetian blinds, adjusted on the middle and upper levels from catwalks, which also give access for cleaning.

Heat is provided by electric baseboard units which have a low initial installation cost, but are not efficient in terms of air circulation in a structure like this. So a ceiling fan was placed at the highest point in the living room; it effectively prevents stale, warm-air buildup. It helps cool the house in summer as well.

The house borrows some features from industrial design, which helped to lower costs. First, building on a modular plan allowed use of standard-size materials.

Second, a corrugated metal skin wraps three sides of the house. The mill-finish, heavy-gauge industrial aluminum siding was laid over walls of 2 by 6's and finished with sheet aluminum, copings, flashings, and corner trim. It will need no painting or staining—a tough job on a structure of this height and on this site.

The cost? Covering the same area with good-quality cedar siding or shingles would have amounted to considerably more money.

Exterior plywood siding was used, however, on the southwest side of the house where most of the windows are. Aluminum here would have complicated the problem of proper window flashing against driving rain. Decks on this side of the house provide access for staining or painting the plywood.

This functional house also has some elements of fun. On one aluminum side the downspout was painted bright red. And when you look back up the hill at the house, you're greeted by a huge orange and yellow canvas shield with an almost equally huge hole in the center (see photograph at far right). It's fastened to a metal frame set 6 feet out from the house wall. Essentially decorative, it does offer some shading for the windows.

Architect was Willard Martin of Martin/Soderstrom/Matteson for Mr. and Mrs. Henry Bell. □

On catwalk *owner Henry Bell waters New Zealand flax plant. Above him is antique ceiling fan used to circulate air*

Last surprise is the huge "camera-eye" awning . . . canvas in cheerful colors

Bubble window *in master bath is set in mirrored wall above twin basins. Leona Bell can look into woods from here or from the kitchen's bubble*

Downhill side of house *is shielded by huge orange and yellow striped canvas. It all reminds architect Martin of a giant box camera—your view is out through this lens*

Pub party

A thrifty buffet for two dozen guests, the easy going foods of England's pubs... meat pie, cheese, cold dishes, sweets

DARROW M. WATT

The simple but sturdy fare of the English pub is a tradition that grew out of serving people food and drink in a speedy, practical fashion in a congenial atmosphere. That's a goal worth considering when you entertain friends and neighbors in your own home.

In a typical pub, a variety of dishes, mostly cold, are set out for service. A large chunk of Stilton cheese is nearly always present. The "locals" pick and choose from the buffet as they like. No established order of foods is dictated, though savory dishes, often accompanied by a pickled relish, through habit usually precede the eating of sweets. Many pub favorites, by our terminology, would be classed as appetizers, but they're consumed in generous portions.

This menu, geared for a party of at least 24 guests, is made up of a selective sampling of pub-style foods, including two spreads or "potted" meats, Scotch eggs, several salads and relishes, a steak pie that's impressive in taste yet simple to prepare, and two exceptional nut cakes.

However, you might also peruse this menu for possible family meals, picking out dishes to use individually (family servings are indicated), since economy is part of their attraction; the meat dishes, for example, make use of less costly cuts.

Another attraction: most of the dishes described here can be made ahead.

If yours is a beer-loving crowd; set out a few bottled beers, ales, and stouts. But

Self-serve pub buffet. *From the top, clockwise: chicken and potato salad with tomato garnish, Stilton cheese, potted pork (rectangular bowl), potted shrimp, crackers, filbert and date cake, cabbage salad and carrots, parsley butter in jug, baked potatoes, apples, steak pie, Scotch eggs, pickled vegetables, olives, and walnut cake. Beverage here is wine—but you could set out bottles of beer, ale, and stout*

Small plates *frequently refilled with samplings from the pub buffet make for a casual meal—in which talk and song can freely interweave. Here you see Scotch egg, chicken salad, potted pork, carrot*

wines are also appropriate. To justify them, just say you're borrowing an idea from a lesser-known British institution, the wine house or wine bar—where dry white or red wine (jug wine from a decanter is appropriate) and dry Sherry or dry Madeira are served with the food; a Port or a medium to sweet Sherry or Madeira is served with dessert.

A pub buffet for two dozen

COLD DISHES

Potted Shrimp **Potted Pork**
Scotch Eggs **Mustard** **Meat Sauce**
Chicken and Potato Salad with Basil
Cabbage Salad
Carrots and Other Raw Vegetables
Olives with Rosemary and Garlic
Pickled Mushrooms **Pickled Onions**
Stilton Cheese **Crackers or Toast**

HOT DISHES

Beefsteak, Kidney, and Oyster Pie
Baked Potatoes **Parsley Garlic Butter**

SWEETS

Filbert and Date Cake **Walnut Cake**
Apples

Also include 6 cups cabbage salad made from a favorite recipe, 3 or 4 pieces of raw vegetable per person, 4 large crackers per person, 2 or 3 cups pickled vegetables, 1 to 2 pounds Stilton (or a blue) cheese, and 12 to 16 apples (consider that half an apple makes a serving).

Directions for making the meat pie and two cakes are on page 182.

The meat pie can be assembled ahead, but, like the potatoes, it's best baked just before serving. The other dishes can all be completed in advance.

Potted shrimp. In a food chopper or food processor, finely grind 1 pound small cooked shrimp. Mix shrimp with 1 cup (½ lb.) butter or margarine at room temperature; ½ teaspoon tarragon; 1 clove garlic, minced or pressed; and salt and pepper to taste. Pack mixture into a 2 to 3-cup crock or serving bowl; cover and chill as long as 2 days.

Serve to spread on crackers, toast, or crisp raw vegetables such as cauliflowerets, zucchini slices, or wide strips of green pepper. Makes about 2½ cups; if served individually as a sandwich filling, makes about 10 sandwiches.

Potted pork. Cut 3 pounds fairly lean, boneless pork (from shoulder, butt, or loin end) into about 2-inch chunks and place in a deep, heavy 2-quart casserole. Mix in 2 teaspoons salt; 1 teaspoon pepper; 1 clove garlic, minced or pressed; ½ teaspoon thyme leaves; and 1 bay leaf. Pour in 1 cup water.

Cover and bake in a 250° oven for 3½ to 4½ hours or until meat falls apart in shreds when pulled with a fork.

Discard bay leaf. Skim off as much fat as possible and discard. Pull meat into shreds, using 2 forks. Blend well with juices and pack into a 5 to 6-cup serving container. Lay 2 or 3 bay leaves on top as garnish and scatter on 5 or 6 whole black peppers. Cover and chill until ready to serve, as long as 1 week.

Serve at room temperature to spread on toast, crackers, raw vegetables such as wide strips of green peppers, or slices of raw turnip or zucchini. Makes 4 to 5 cups; if served as a sandwich filling, makes about 16 to 20 sandwiches.

Scotch eggs. Shell 6 hard-cooked eggs. Divide 1 pound bulk pork sausage in 6 equal portions. Pat a portion of meat evenly around each egg to enclose completely. Dust each sausage-coated egg with all-purpose flour; shake off excess.

Beat 1 more egg (uncooked) with 1 tablespoon water. Dip sausage-coated eggs in this mixture, lift to drain briefly, then roll in fine dry bread crumbs (you'll need about ½ cup). At this point you can place eggs slightly apart in a pan, cover, and chill 4 to 6 hours.

In a small deep pan, heat about 1½ inches salad oil to 375°. Add eggs, a few at a time, and cook until well browned, turning as needed; takes about 3 minutes each. Drain on absorbent material.

Serve hot or at room temperature (eggs can stand 2 or 3 hours before serving). Cut eggs in halves or quarters as served. Accompany with mustard or prepared meat sauce. Makes 12 to 24 buffet servings or 6 meal-size servings.

Chicken and potato salad with basil. In a blender or food processor, purée 1 cup chopped parsley with 2 tablespoons basil leaves (if fresh basil is available, use 1 cup of the leaves and omit parsley) with 2 tablespoons *each* olive oil or salad oil and lemon juice, and 1 egg. Put purée in a large bowl and mix with ¾ cup mayonnaise. Add 2 to 3 cups cold cooked chicken (skin and bones removed), cut in bite-size pieces; 1 cup finely chopped celery; and 2 cups bite-size pieces cold, cooked, and peeled new potatoes (about 1 lb.). Mix gently. Cover and chill as long as 24 hours. Place in serving bowl and garnish with 1 to 2 cups cherry tomatoes, cut in halves. Makes 7 to 8 cups or 8 single meal-size servings.

Olives with rosemary and garlic. Rinse 1 cup unpitted large green ripe or Spanish-style olives with cold water; drain. With a knife slash each olive vertically on one side, cutting through to the pit.

Thinly slice half of an unpeeled lemon.

In a deep jar (about 1-pt. size), layer olives with lemon slices, a fresh rosemary sprig (1 piece 4 to 5 inches long, broken in short lengths or 2 teaspoons of the dried herb), and ½ teaspoon whole black peppers. Tuck in 2 cloves garlic, slightly crushed. Add enough olive oil (about ⅔ cup) to just cover olives. Cover and let stand at room temperature at least 1 day, or as long as 1 week. Makes 1 cup.

Parsley garlic butter for baked potatoes. Melt ¾ cup (⅜ lb.) butter or margarine and add 1 cup minced parsley and 2 cloves garlic, minced. Heat until foamy. Serve hot, or let cool and reheat. Makes enough for 6 to 8 medium-size baked potatoes; allow ¼ to ½ potato per person for a buffet serving or 1 each for a meal-size serving. □

NORMAN A. PLAT

Colliding circles of brick *divide the garden into two parts: rock plants in the left foreground, perennials above retaining wall of broken concrete. The March-flowering rock plants include rosy purple Oxalis brasiliensis and pink Aethionema 'Warley Rose' (far left); above wall, most colorful perennials are orange Geum 'Fire Opal,' white iberis, yellow dwarf iris*

"It just won't work in Los Angeles"

What won't? Growing a rock garden. Growing perennials. Here's proof to the contrary. And here are ideas for gardens north of L.A.

This hillside garden of perennials (above the path) and rock garden plants (below it) is significant, first because it's very attractive and second because it's in Los Angeles. It really disproves a legend that has been passed along for generations: "Perennials and rock plants don't do well in Southern California."

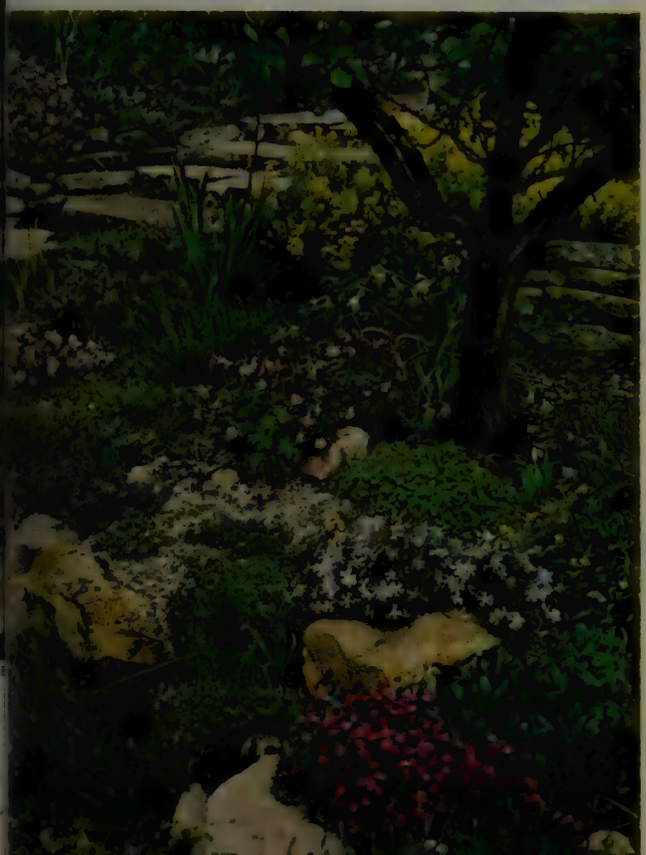
The owner is landscape designer Chris Rosmini, who did all the work herself, including lugging San Gabriel riverbed rocks into the garden. She also used some other materials that are inexpensive and easy to come by in California—old bricks, broken concrete, and gravel.

About one-third of the plants are common, everyday perennials sold at many general-line nurseries. The other two-thirds are raries gathered from specialists in places like Occidental and Los Gatos, California; Medford, Oregon; and Spokane, Washington.

Although we call some of them rock plants and some perennials, all are truly perennials (a broad group of plants that live longer than a year or two but never become woody shrubs or trees). We refer to some as rock plants—partly because they are small and compact and look good among rocks, partly because they may have actually grown in rocky soil in their native homes and as a result need extra-good drainage to prevent moisture-caused rots and fungus diseases.

Even without much planning, the diversity of plants in a garden like this lets you have something in bloom most of the year. March through May is a good time to plant, or at least get started, but you can also plant in fall. Chris Rosmini plants practically year-round—whenever she finds something nice in bloom, she buys it and plants.

Her garden began as a fairly steep hill, so the retaining walls are necessary. They



On top *of retaining wall are two May performers: pink Oenothera speciosa childsii and yellow Hypericum coris*

BILL ROSS

Only inches high, *seed-grown dianthus pokes out from under stone in rock garden*

This slice *of rock garden includes dark pink dianthus, pale blue Phlox bifida (over rock), light pink Geranium macrorrhizum, yellow Alyssum saxatile*

NORMAN A. PLATE

The perennial garden in summer. *She's picking yellow yarrow (Achillea taygetea), and standing beside dianthus. Spiky dwarf daylily 'Tinker Bell' and dwarf lavender grow in foreground. Other summer flowers are pictured at right and below*

Gayfeather *(Liatris spicata) with fluffy, rosy purple flower spires bloom beside yellow Spartium junceum*

The perennial garden ... yarrow and dianthus, dwarf daylily and dwarf lavender, balloon flower and gayfeather

Geum 'Borisii' *has tiny flowers that are brilliant orange. This rock plant is only 6 inches tall*

Balloon flower *(Platycodon grandiflorum) is unusual; it has white, double, 2-inch flowers*

also help put the plants up closer to eye level. If you garden on flat ground, mounding soil on either side of a path would raise plants and improve drainage, too.

How the perennial bed works

Chris Rosmini prepared the perennial bed by digging in as much organic matter as she could get, mostly homemade compost and commercially available redwood sawdust and bark. This improves drainage and holds moisture; she only has to water every two weeks in summer. The amendments also make the soil easier to dig, which is important because perennial gardens need constant renovation. Many perennials need dividing and replanting every few years to keep them vigorous. When she replants, she reworks the soil, adding more organic matter.

In the winter, when most of the plants have been pruned back or are dormant, she mulches with more organic matter to get the garden ready for the new year.

How the rock garden works

Chris Rosmini grows rock plants in almost pure sand and gravel. At far right you can see the steps involved in building a rock garden. First, she excavates about 10 inches of soil, then digs in or-

BILL ROSS

Rock garden in winter. *It's mostly low spreading carpets of green and gray, with just a few early bulbs poking through. Rocks trace a path through the plants*

The rock garden... the plants grow in an almost pure sand-gravel mix

Creating *a rock garden calls for much soil preparation. Dig out 10 inches of soil, then mix amendment into bottom of hole*

Fill hole *with new, fast-draining soil mix of sand and bird's-eye gravel until you have a mound 8 inches above ground*

Add *several inches of organic amendment (she favors homemade compost) and mix it into gravel and sand. Next come plants, rocks*

ganic matter so that the soil on the bottom of the hole and the soil she fills the hole with aren't too dissimilar.

Next, she fills in the hole with a mix of coarse builder's sand and bird's-eye gravel or pea gravel (the smallest gravel sold), finally mounding it about 8 inches higher than ground level. This gives the rock plants about 18 inches of gravelly soil to grow in.

To enrich the sand-gravel mix, she works in more organic matter. This end product drains so fast that water disappears into the soil instantly, with no runoff and no puddling. Yet the rock garden only needs watering every other week in summer because the organic amendments hold moisture like a sponge.

The rocks placed around the garden help separate and define the plants and path. They also provide nooks and crannies that shelter and sometimes shade special little plants. And rocks help cool roots growing under them.

A huge plant list

Starting on page 226 we give you a long list of plants to put in your perennial or rock garden. And, that's just a starting point. Waiting in Western specialty nurseries are incredible plant treasures that thrive in these two kinds of gardens. We also list some of these special nurseries. □

himsical *dinner rolls are signed to produce smiles. ape them like these or ate your own menagerie*

Sculpture out of the oven . . . the artworks end up as dinner rolls

DARROW M. WATT

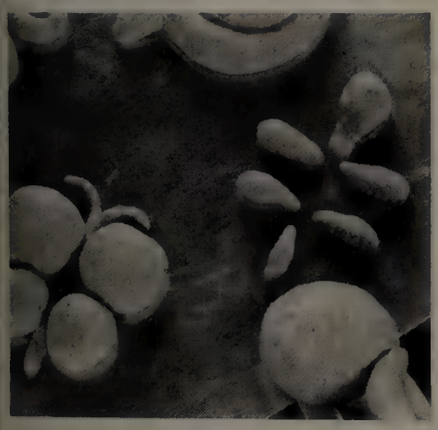
Don't be timid: *Snake-shaped roll makes a delicious sandwich that won't bite back*

These amusing creatures are in fact tender whole wheat dinner rolls. You make them with a yeast dough that's super easy to handle and models like clay. It stays tender through shaping and reshaping, then holds its form and detail in the oven.

Our recipe makes seven large rolls. You can shape yours as we did or create your own—fruits, vegetables, or people if you like. But keep in mind that simple, bold shapes work best. Thin or small pieces of dough get too brown in the oven before the roll is completely baked. You can also use seeds, nuts, or whole cloves for decoration.

Adults and children will enjoy these whimsical rolls. Serve them with any meal in place of bread, or split and fill them with juicy hamburger or other sandwich makings. You might offer them for a make-your-own sandwich buffet.

Butterfly, turtle: *Form small parts, then shape balls for wings or body*



Fish, octopus: *Shape dough like bowling pin; cut tail or arms. Add eyes*

Snake, snail: *Roll dough into a long rope, then coil or curve to shape. Tuck snail's tail underneath*

Whole Wheat Roll Menagerie

- 1 package active dry yeast
- 1 cup warm water (about 110°)
- 2 tablespoons molasses
- 1 tablespoon salad oil
- 1 teaspoon salt
- ¼ cup wheat germ
- 1¾ cups whole wheat flour, unsifted
- About 1¼ cups all-purpose flour, unsifted
- 1 egg yolk mixed with 2 teaspoons water

Dissolve the yeast in the water. Add the molasses, oil, salt, wheat germ, and whole wheat flour. Beat well to blend. With a wooden spoon or heavy-duty mixer, gradually beat in enough of the all-purpose flour (about 1 cup) to form a stiff dough.

Turn dough out onto a floured board and knead until smooth and elastic, about 5 minutes. Turn dough over in a greased bowl, cover, let rise in a warm place until doubled, about 1½ hours.

Punch down dough, then divide into 7 pieces. Form each on a very lightly floured board as shown at left or create your own shapes; keep unshaped dough lightly covered.

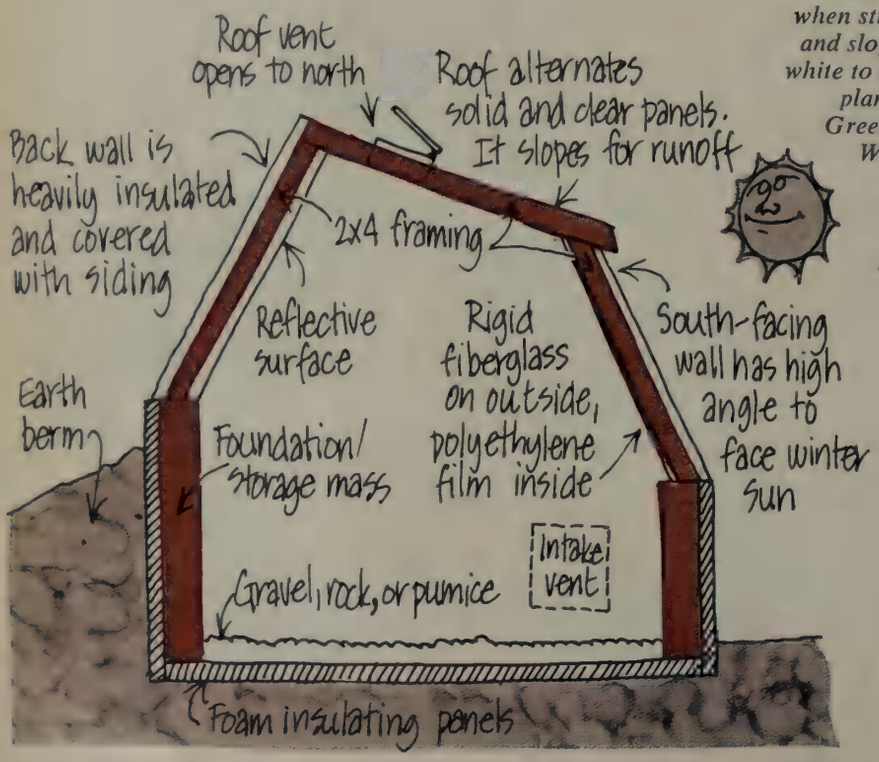
Place rolls about 2 inches apart on well-greased baking sheets. Cover lightly and let rise in a warm place until puffy, about 25 to 30 minutes. It's easier if you let the first 2 or 3 rolls rise while you shape the others; then bake in batches. Before baking, brush each roll lightly with the yolk-water mixture.

Bake in a 400° oven for about 15 to 20 minutes or until nicely browned. Transfer to wire racks. Serve warm, cooled, or reheated. To reheat, place rolls on a baking sheet; heat, uncovered, in a 350° oven for about 10 minutes or until warmed. Makes 7 rolls. □

1. *North wall of greenhouse is solid and well insulated to prevent heat loss; berm bounded by railroad ties helps insulate. Door on east end is away from winter winds*

During construction. South foundation wall is low to let in maximum winter sun. Sand-filled concrete blocks store heat for night use; rigid insulation (white panel) goes on the outside

Inside it's warm and green, with no costly fuel use. Dark drums filled with water store extra heat when struck by sun; floor and sloping rear wall are white to reflect sunlight to plants from all sides. Greenhouse design by William Yanda for Frank and Rita Slowen of Santa Fe; drawing at left shows details



A revolution in greenhouses

Going all-the-way-solar, seven examples show there's no need for wasteful backup heat

All greenhouses are in a sense "solar, gathering warmth and plant-growin energy from the sun. But a revolutio in greenhouse design is giving a ne dimension to the term: We are beginnin to see structures that rely on solar energ to meet most or all of their winter hea demands—greatly reducing the need fo costly and energy-consuming backu heat.

Solar greenhouses first emerged in ver cold but predictably winter-sunny areas New Mexico, northern Arizona, Colo rado. They are certainly less needed i warmest climates. But solar greenhous innovation is fast spreading throughou the West, and manufactured versions ar in sight. The examples on these fou pages may provide energy-wise ideas fo your own needs and climate.

How they work

Solar greenhouses don't need specialize hardware—the structure itself gathe and stores the sun's heat for use at nigl and during cloudy days. The desig techniques are deceptively simple. He are the basics:

Admitting light. You need an unob

PETER O. WHITELEY

2 • *Despite freeze, add-on greenhouse by William Yanda provides warm play space and adds heat to house by day. Partly insulating double layer of plastic film on south and east walls (above) admits sunlight. Stone floor and adobe west wall (below) soak up heat; house protects north side*

structed south or near-south exposure to gather the relatively brief and low-angle winter sunlight, plus maybe an east end exposure for morning light. The south wall should be steep—tilted from the horizontal at an angle equal to your latitude plus 20° to 50°—to face the low winter sun head on while reflecting away much hot, high-angle summer sunlight.

Double glazing. Your light-gathering wall should be in two layers with an insulating air space between; this can prevent up to 40 percent of normal heat loss. Many greenhouse builders prefer the economy and handling ease of synthetic materials—often a durable rigid vinyl or fiberglass panel for the outside covering, with less expensive polyethylene film inside. But you may have to shop hard to find the necessary ultraviolet-resistant versions of these materials; glass is a ready alternative.

Solid north wall. Since the sun lies to the south, you replace heat-wasting north glazing with a well-insulated wall. To prevent phototropism—having your plants strain toward the south light,

3 • *Southern California is less demanding: Less heat storage is needed, thus construction cost is lower. Jack Park/Helion of Sylmar designed this unit with well-insulated but nonstoring walls; water drums hold the heat. North wall is curved to reflect added light. Louvers help draw out heated air in summer*

BILL ROSS

DON NORMARK

4 • *To extract maximum heat from scant Northwest winter sun, a brightly aluminized, parabolic rear wall concentrates solar radiation into storage pond. A bonus: edible fish that feed on the algae. Designed by Jeffrey Barnes, Howard Reichmuth/Bear Creek Thunder of Ashland, Oregon. This design is still in the experimental stage*

You need a steep double-glazed south wall, a solid north wall, a storage mass, insulation, air-leak-proofing

Recycled *double glazing: Don Shanks of Flagstaff carefully cleaned out used fluorescent tubes and joined them with butyl caulk*

Water bags *behind glazing collect heat but let light pass in. Design: Ken Smith/Ecotope Group, Seattle*

deforming their growth—the upper hal of the wall should have a bright white o reflective inner surface to bounce ligh onto plants from behind and (preferably not necessarily) slant inward toward th roof peak.

Storage mass. The key to surviving col nights and cloudy days: dense material that absorb sunny-day heat and the slowly release it as the atmosphere cool Several structural materials work wel rock, masonry, concrete, adobe. Th structure should be thick—up to a foo —and well insulated on the *outside* s the stored heat won't escape. Water i dark containers is the best storage me dium; in milder climates it may be a you need. Deep earth or rock floors (in sulated beneath) or raised planting bed can also store heat. The storage mas should be struck directly by incomin sunlight.

Sound construction. Every unglazed su face should be heavily insulated an sealed against air leaks. (Some green houses alternate clear panels for ligh with opaque insulated panels for sun mer shade and winter heat retention But even during a freeze your green house can generate plant-damaging hea so you need adequate venting—manu or thermostat controlled.

How much heat can you expect?

A solar greenhouse retards temperatu fluctuations as storms or darkness con and go, and generally keeps the insid up to 30° warmer than the outside. Pe

NORMAN A. PLATE

5 • *Panel atop Dr. John Hall's Flagstaff unit has aluminum on both sides. It's raised to reflect sun inside in winter, lowered to insulate at night or to reflect away summer sun. Duct carries excess winter heat into house through window*

6 • *Flagstaff experiment: Foil provides reflection; heat stores in gallon bottles filled with dark-dyed water and tied to chicken wire along rear wall. Fabric screen is raised to help slow night heat loss. Design: Dr. David MacKinnon*

formance can be striking: The Slowen greenhouse on page 96 held at 56° during a –5° night, and the less-well-insulated MacKinnon structure (above right) survived a –4° night at 48°.

Experts recommend a cold-climate storage capacity of 2 cubic feet of water or 75 pounds of rock per square foot of glazing; a single 55-gallon drum of water heated by 10° during the day has stored 5,000 BTU's. In any event, a solar greenhouse can greatly lower the demand on any backup heat source.

Living with a solar greenhouse

During extreme low temperatures you may have to open or close shuttering—insulating panels over the glazing, or a protective screen inside to prevent radiative heat loss into the clear night sky. Greenhouse authorities differ on the value of shuttering: It traps heat effectively, but can be bothersome.

You need adequate summer shade and venting: top vents or, to let the breeze help, a low vent on the summer windward side and a larger vent high on the leeward side.

A newly published book provides a good variety of design considerations and construction details, plus critical sun-angle charts. It's *Solar Greenhouse Design, Construction, Operation,* by Rick Fisher and Bill Yanda (John Muir Publications, Santa Fe, 1976; $6 paperback). For examples of greenhouses as household heat sources, see page 86 of the November 1976 *Sunset.* □

PETER O. WHITELEY

7 • *"Solar room" designed by Steve Kenin of Taos, New Mexico, is attached for winter growing and room heat, removed in summer to let yard space be used. Double layer of ultraviolet-resistant film is tightly sealed around a framework of metal tubing and wood (top left). Then a tiny 16-watt motor pumps air between the layers (below left) to help insulate the structure and make it rigid (right)*

JERRY FREDRICK

Leaning into *an offside shot (his right side), offensive player sends lightweight willow-root ball flying high over turf field in Monterey, California*

Polo

They're playing right now in Western cities from Honolulu to Tacoma to Santa Barbara. Most matches are free, the watching good

Intercollegiate players *at the University of California at Davis include women; it's the only West Coast college team*

CRAIG AURNESS

Palm-studded beach *lures both players and spectators after the matches at Hawaii's Mokuleia club on Oahu*

Part of the fun *is picnicking at the matches. But it doesn't have to be fancy. This group at Santa Barbara's club brought soda pop and hero sandwiches*

BILL ROSS

Protecting *the polo pony: padded "boots" are applied to shield his forelegs*

Equipment *for a polo team includes horses, mallets, and full regalia for the players*

The shahs and sultans of ancient Persia and Arabia first played polo some 2,000 years ago. In 1869 the first match in England was held on Hounslow Heath near London; seven years later, Americans tried the game.

Despite this long history, polo is not widely popular. It's an expensive sport to participate in. Games require a huge field, usually without bleachers, and this tends to limit its spectator appeal. And it retains an elitist image.

That may be changing. Polo these days is played in many cities in the West by many kinds of people—businessmen, women, students. Anyone can go and watch the action, and between matches you can chat with players and handlers. Most matches are free and some are now commentated to help the uninitiated understand the game.

Playing seasons here are long and the settings often spectacular—from Hawaii's beachside club to Santa Barbara's mountain-backed fields and Tacoma's tree-sheltered turf. Some 20 clubs in three Western polo circuits hold matches each weekend and tournaments during their season. They're all playing right now; many continue through September.

Teams, tactics, and ratings. Polo is played by two teams of four mounted horsemen using mallets to hit a small wooden ball through goal posts at either end of a huge turf field (160 by 300 yards). The game can last from two to six "chukkars" (periods lasting 7½ minutes) with 4-minute rests in between. Each goal counts one point and teams switch ends after every score.

Team members wear shirt numbers to identify their positions: Number 1 and 2 players are offensive; Number 3 (pivot) is both offensive and defensive; Number 4 (back) is defensive. But any player can score. Each has a handicap or "goal" rating as an indicator of his proficiency, from 0 (novice) to 10 (experienced).

The total of the four players' ratings equals the team's rating; they'll play only other teams with similar ratings in matches or tournaments held for their rating (such as a 4-goal match for less experienced teams or a 24-goal match for the better teams).

When the action starts. The umpire starts the game with a throw-in at midfield and the teams fight for the ball. From then on everything happens at a gallop, as the polo player tries to maneuver the ball downfield without losing control of it or committing a foul.

What constitutes a foul is very much up to the official's discretion. The two most common are riding into or causing danger to another rider, and riding across the ball's line of travel (you must stay on one side of it at all times). When a foul is called, the other team takes possession of the ball or gets a free shot at the goal.

Tactics and maneuvering are marvelous to watch: Horse and rider spin and wheel in tight circles, stop and start abruptly as the small white ball skitters among the animals. Accidents are not uncommon and tempers sometimes flare.

It's helpful to bring binoculars to follow the ball. Most fields don't have established seating (Santa Barbara's bleachers are an exception), so spectators often park next to the field and watch from cartops or tailgates. Picnicking is always permitted and can be as elaborate as you want to make it.

For a list of clubs and their playing fields, see page 77. □

All about 菜 (*choy*)... growing

When the Chinese came to the West, they brought with them an intriguing variety of green leafy vegetables. Over the years some of these (such as bok choy and Chinese cabbage) have become so accepted that they are commonly sold in many supermarkets; other kinds are still found only in Oriental markets, where you'll find a very good selection this month.

However, there's another way to get many kinds, in as much quantity as you want: Seeds for all the varieties shown here, and many others, are becoming more widely available.

Easy crops to grow, these greens mature to market size in 45 to 80 days. Now's the time to get seeds into the ground, before the weather warms up too much. Desert gardeners will have the best luck with the fastest maturing kinds. For growing instructions and seed sources, turn to page 236.

Recipes here suggest how to use the greens—as you sample them from the market, or as your crop comes in. Should your crops get out of hand, you'll find directions for preserving on page 169.

BILL ROSS

Two months *after sowing, gardener harvests bok choy*

Alike but not quite

Many of the greens look similar, yet each has distinctive flavor and character. Here we introduce you to the eight varieties pictured at right. For most of our recipes the greens are interchangeable.

Broadleaf mustard, *dai gai choy*. Large green leaves have a pungent, somewhat bitter mustard flavor that gets stronger as plants get older; best diluted in soup. Ribs are milder, often sold trimmed of leaves for pickling.

To prepare: Separate leaves from central head; wash. Trim off root ends. Cut leafy portions off each rib. Cut ribs and leaves in ½ by 2-inch strips.

Chinese mustard greens, *gai choy*. Flavor is similar to broadleaf mustard but milder; it also becomes increasingly pungent as leaves mature. Excellent in soups.

To prepare: Trim off root ends; remove any tough or yellow leaves; wash thoroughly. Cut or tear leafy portions from stems. Cut stems in 2-inch lengths, leaves in 1 by 2-inch strips.

Yao choy, also called *ching choy sum, choy sum,* or flowering cabbage. Highly prized delicacy similar to Chinese broccoli, but even milder and more tender. Good plain or with meat.

To prepare: Trim off stem ends and any tough leaves. Peel any tough skin off stalks; wash. Cut tender leaves into 1 by 2-inch pieces, stalks into 2-inch lengths.

Chinese white cabbage, *bok choy*. A tender-crisp, sweet, very mild vegetable; widely available. Good plain, with meat, in soup.

To prepare: Cut off root end; separate stalks. Remove tough leaves; wash stalks. Cut leafy portions from stems. Cut leaves in 1 by 2-inch strips. Diagonally slice stems into ½-inch-thick pieces.

Choy sum, a general term for the heart of any green. Both yao choy and the heart of bok choy are usually sold as choy sum. The young center heart of bok choy is sweeter, more tender, and costs more. Best prepared simply.

To prepare: Pull stems off central stalk; wash stems, discard stalks. Cut as directed for bok choy.

Chinese cabbage (napa cabbage), *siew choy*. Widely available. Mild, delicate flavor, crisp texture. Use raw in salads; or cook and serve plain or in soup.

To prepare: Cut off root end, separate leaves, wash. Cut leafy portions off each rib. Cut ribs and leaves crosswise in ½ by 2-inch strips.

Green Chinese cabbage, *ching siew choy*. Stronger flavor and firmer texture than its close relative, napa cabbage. Use in the same ways.

To prepare: Trim off root end, separate leaves, wash. Cut leafy portions off each rib. Cut ribs diagonally into ½-inch-wide pieces; cut leaves crosswise in ½-inch strips.

Chinese broccoli, *gai lohn*. Similar in flavor and texture to Western broccoli but with a slight mustardy pungency and less cabbage flavor; flower heads are much smaller than Western broccoli. Good plain or cooked with meat.

To prepare: Trim off tough stem ends and any tough leaves. Peel any tough skin off stalks; wash. Cut tender leaves into 1 by 2-inch pieces, stalks and flowerets into ½ by 2-inch sticks.

Basic Stir-fried Chinese Greens

You'll need 6 cups fresh Chinese green cut as directed above, or 3 cups well-drained, thawed, frozen greens (see page 169 for freezing instructions). Choose any variety.

Pour 2 tablespoons salad oil in a wok o wide frying pan and place over high heat. When oil is hot, add 1 clove garlic minced or pressed, and fresh stem or ri pieces (or frozen, thawed stems an leaves). Cook, stirring, until all piece

At a Chinese market *you can buy gr to sample before deciding what to g Here, choy sum, bok choy, and napa cab*

ooking, shopping for Chinese greens

rom small *to really enormous, these are eight of the most common Chinese greens. hey range in price from about 30 cents per pound for bok choy to $1 for the broccoli*

re coated with oil. Add ¼ cup water ıse 6 tablespoons for the broccoli and ao choy). Cover and cook 2 to 4 min- tes or until barely tender. If using fresh reens, add leaves and cook, stirring, ntil they barely wilt, about 1 minute. alt to taste. Makes 4 servings.

tir-fried Chinese Greens with Beef

hinly slice ¾ pound lean boneless beef teak (such as sirloin, flank, top round) ıto 1 by 3-inch strips. Mix meat with 1 tablespoon soy sauce.

DARROW M. WATT

Stir together ¾ cup regular-strength chicken broth, 4 teaspoons cornstarch, 2 teaspoons soy sauce, 1 teaspoon minced fresh ginger (or ½ teaspoon ground ginger), and 2 tablespoons dry Sherry.

Cook any variety of Chinese greens as directed for the basic stir-fried Chinese greens recipe; remove from pan. Add 2 tablespoons salad oil to pan and place over high heat. When oil is hot, add meat and cook, stirring constantly, until meat is lightly browned, about 4 minutes. Return vegetables to pan and add broth mixture. Cook, stirring, until sauce thickens. Makes 2 or 3 servings.

Chinese Greens Soup

You'll need 6 cups cut fresh Chinese greens (see preceding directions) or 3 cups well-drained thawed frozen greens. Choose any variety except broccoli or yao choy.

Thinly slice ¾ pound boneless pork steak into 2-inch-long strips. Mix with 1 tablespoon soy sauce and 1 clove garlic, minced or pressed. In a 3-quart or larger pan combine 6 chicken bouillon cubes and 6 cups water; bring to a boil. Add pork mixture; cover and simmer until pork is tender, about 10 minutes. Add fresh stem or rib pieces (or thawed stems or ribs and leaves of frozen vegetables), bring to a boil, and simmer, uncovered, about 2 minutes longer or until barely tender. Add leaves if fresh greens are used; simmer about 1 minute longer or just until wilted. Salt and pepper to taste. Makes 6 servings.

Cooked Chinese Broccoli Spears or Choy Sum

Cut off tough stalk ends and pull off tough leaves from 1 bunch (about 1 lb.) Chinese broccoli. Peel any tough skin off stalks. Cut stalks and flowerets in ½-inch-thick sticks about 4 to 6 inches long (or use 1 pound washed small whole heads of choy sum; do not peel or cut).

In a wide frying pan, bring 1 inch salted water to boiling. Add vegetables; cover and cook just until tender, 5 to 6 minutes. Drain and serve plain, drizzled with melted butter, or soy sauce. Serves 4. □

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DON NORMARK

Black pebbles *from San Quintín, Mexico, are epoxied onto countertop. Cabinet and shelves make a compact arrangement in this 4-foot-wide space*

Bathroom niche is just 4 feet wide

Natural materials boldly used give thi bathroom vanity its style. Designed b Neil Wright of Ketchum, Idaho, it lend itself to any small area adjoining a tu or toilet.

Vertical grain 2 by 6 Douglas fir wa used for the medicine cabinet and shel ing over the stained birch vanity. Insid the cabinet, glass shelves rest on adjus able tracks mounted on the vertic boards. The ¾-inch plywood door wit a glued-on mirror swings on a pian hinge and works with a touch latch.

Smooth black beach pebbles importe from Baja California make the strikin countertop. The rocks are set with epox on a waterproof plywood top, then mo tared with black tile grout. An acryl sealer protects the counter and occ sional waxing keeps it shining.

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DARROW M. WATT

Books fit neatly *into dowel rack. You can choose dimensions to suit your needs*

Desk top file or rack for books

Here is one way to turn some 4-foot lengths of hardwood doweling into a desktop file—or a magazine and book holder.

You'll need 7 feet of ⅜-inch dowel and 2½ feet of ¾-inch dowel for this project. Cut the ⅜-inch dowel into 12 pieces 5½ inches long and 2 pieces 7½ inches long. Cut the ¾-inch dowel into 2 pieces 14½ inches long. Lightly sand all pieces.

First make the base by drilling two ⅜-inch holes in each ¾-inch dowel, 2½ inches from each end. Glue the two 7½-inch dowels into these holes; let dry overnight. Then mark and drill six ⅜-inch holes in the top of each ¾-inch dowel; space holes 2½ inches apart, starting 1 inch from each end.

Use a square to straighten the upright dowels as you glue them in place. Finish the holder with Danish oil. □

To mark *center points for ⅜-inch holes precisely, clamp the base to a scrap board and use a combination square*

Bob Bretonne. Cedar Roofs Co., Alhambra, California

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* ASHRAE HANDBOOK p. 362-363.

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PETER O. WHITELEY

Old buffet *adds charm without overwhelming this renovated bath*

Old sideboard in the bathroom

Handsome old pieces of furniture are seldom used in the bathroom, and yet, as you can see with the Sheraton sideboard reproduction shown here, they can add beauty to this part of the house as well. Designer Judd Wirz of San Francisco found this 36-inch-high buffet for $55 in a secondhand store and converted it to a vanity for the bathroom he was remodeling.

To accommodate a standard sink, purchased for $80, he cut an oval to size in the 20 by 66-inch countertop and removed part of the drawer.

He refinished the top and sealed it with two coats of polyurethane. (Standard latex caulk was applied around the sink.) A $20 mirror, also from a secondhand store, completed the project. □

Cutout and conjoined drawers *fit around sink, still provide some storage space*

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DON NORMARK

Desert terrace *uses simple canal system to easily and deeply water four fruit trees (the first is around corner of house)*

Tree-to-tree canal system saves water and time

Pomegranate tree *gets a drink first, then it's the American pit bull terrier's turn*

Water is too precious to waste, particularly in the West. And time can be precious, too. To save both, architect Judith Chafee of Tucson designed this watering system into a desert terrace. The canal scheme is reminiscent of that devised by the Moors to bring water down from the mountains and into the Alhambra palace in Spain.

Here, water from a single faucet passes through brick canals watering four trees, each planted in its own 4-foot-square basin in the terrace.

Water from a hose flows first around the pomegranate tree (see photograph above) until it fills the basin to the level of the canal. Surplus water then flows to the basin around a fig tree. From there it goes to a tangelo and finally, at the end of the line, to a grapefruit tree. In an hour's time, the roots of all four trees get a deep, thorough soaking—without the loss of a drop of water or the need to turn the faucet on and off several times.

The bricks around the trees are set three deep, using mortar around all edges. Canals are one brick deep, also set in mortar along each side. Bricks on the rest of the terrace are laid in sand, without a concrete slab foundation. □

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PETER O. WHITELEY

Chimney tiles *form the centerpiece of this hand-crafted work-study alcove*

Storage wall, desk wall, display wall

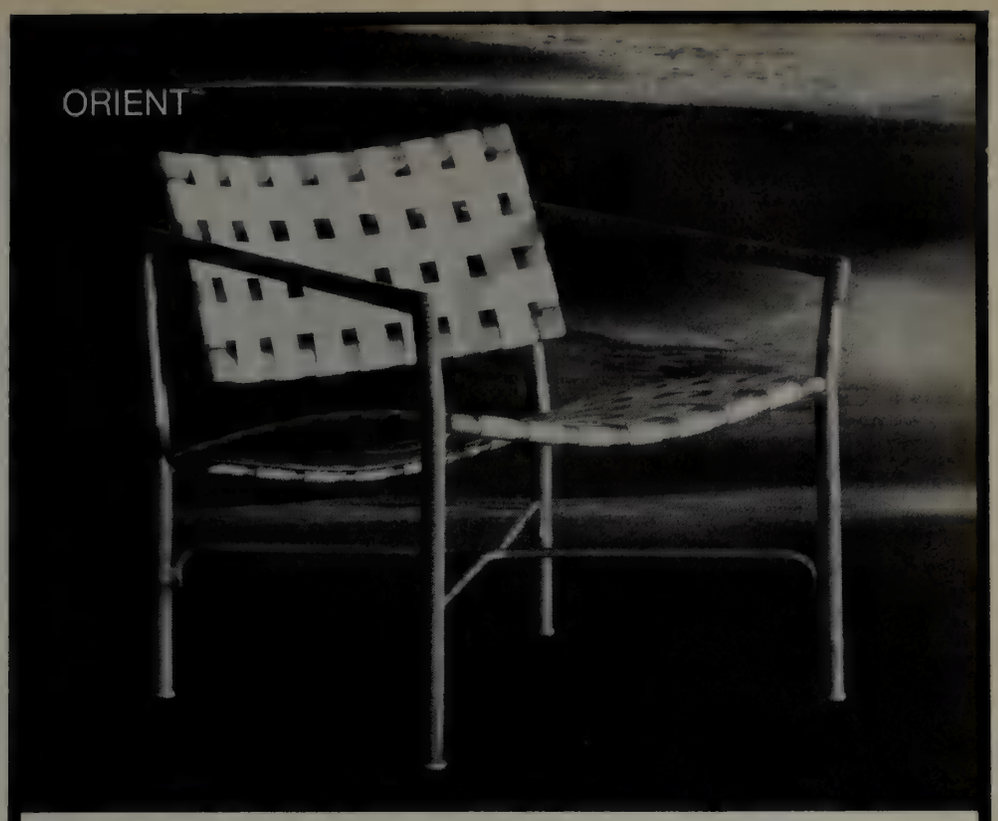
This could have been just another bookshelf wall. But with ingenious use of space and careful choice of materials, Albert Utton created a versatile library-storage-work alcove in one bedroom of his Albuquerque home.

For shelving material he used 8-inch-wide, rough-sawn ponderosa pine: 3 inches thick for the vertical supports that join the heavy ceiling timbers, 2 inches thick for the shelves. Small pegs hold the shelves in place. A silver-gray exterior stain emphasizes the wood's natural weathered appearance.

There are two striking highlights. First, in the center of the shelf area four rectangular clay chimney tiles form individual shelf and display units. They're set apart with small wood blocks; a standard mixture of brick mortar and sand seals them in place.

Second, adjacent to the tiles is a writing desk held to the vertical shelf members by curved supports; it was carved by the owner from an old 3 by 21-inch bridge timber. A tack board of dark cork is mounted over the desk. The desk section is right next to a large glass door that provides abundant natural light.

The entire structure rests atop a raised row of bricks behind the baseboard heater. It's backed by dark-stained plywood, separated from the outer adobe wall by 2 full inches of rigid foam insulation. □



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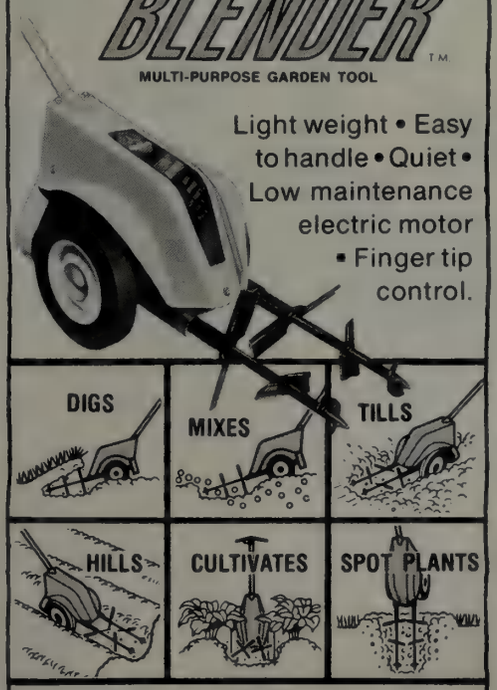

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DON NORMARK

Sturdy reel *allows experiments with large kites in moderate as well as light winds*

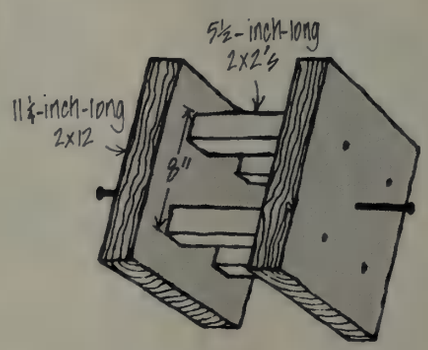
This big reel for a kite holds a mile of string

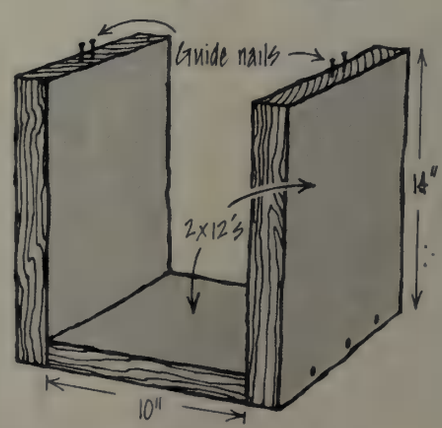
When a good March wind blows, the Bratton brothers of Tacoma know how to handle it. They often go kite flying, and the mile of string they take calls for a big reel. The one you see them using at left is easy to make. Its simple design allows the reel to spin on an axle made of two large spikes, and its hefty wooden components make it easy to operate.

To duplicate the reel, you'll need a 6-foot length of 2 by 12 and 2 feet of 2 by 2. Precut the wood to the sizes shown in the diagram and sand all edges. Assemble the pieces, joining them with waterproof glue and 14 2½-inch (8d) galvanized box nails.

Find the center of the reel sides; for the two large axle spikes drill holes slightly smaller than spike diameter; pound the spikes completely through the wood. Hammer in two 3½-inch (16d) box nails on each side of the reel stand for the axle to turn on (or use large staples).

Though you probably won't want a fine finish on this reel, it's a good idea to rub it with a finishing oil to protect the wood from moisture and dirt. □





Built *of 2 by 12's and 2 by 2's, it has all the line capacity you're likely to need*

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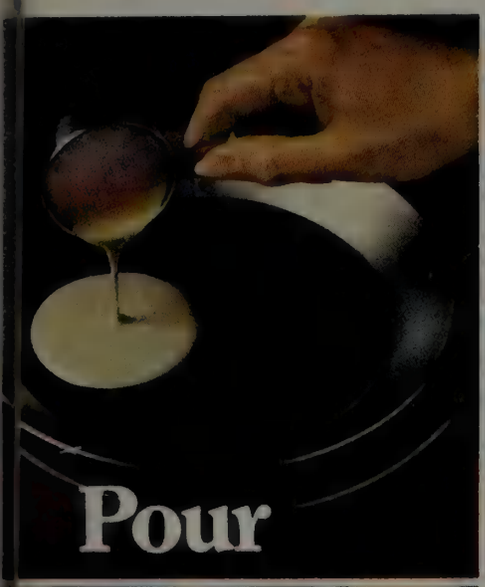

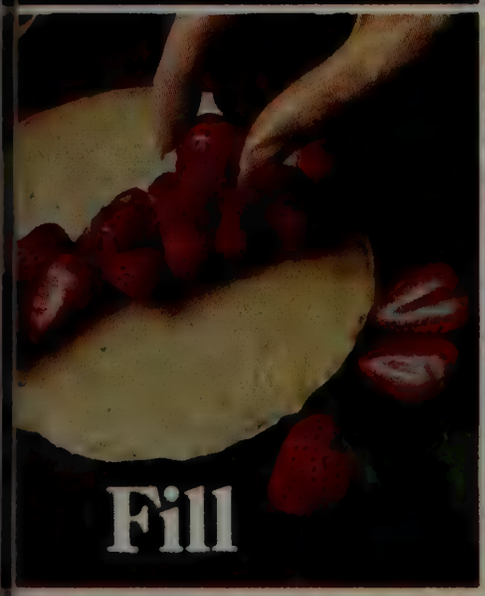

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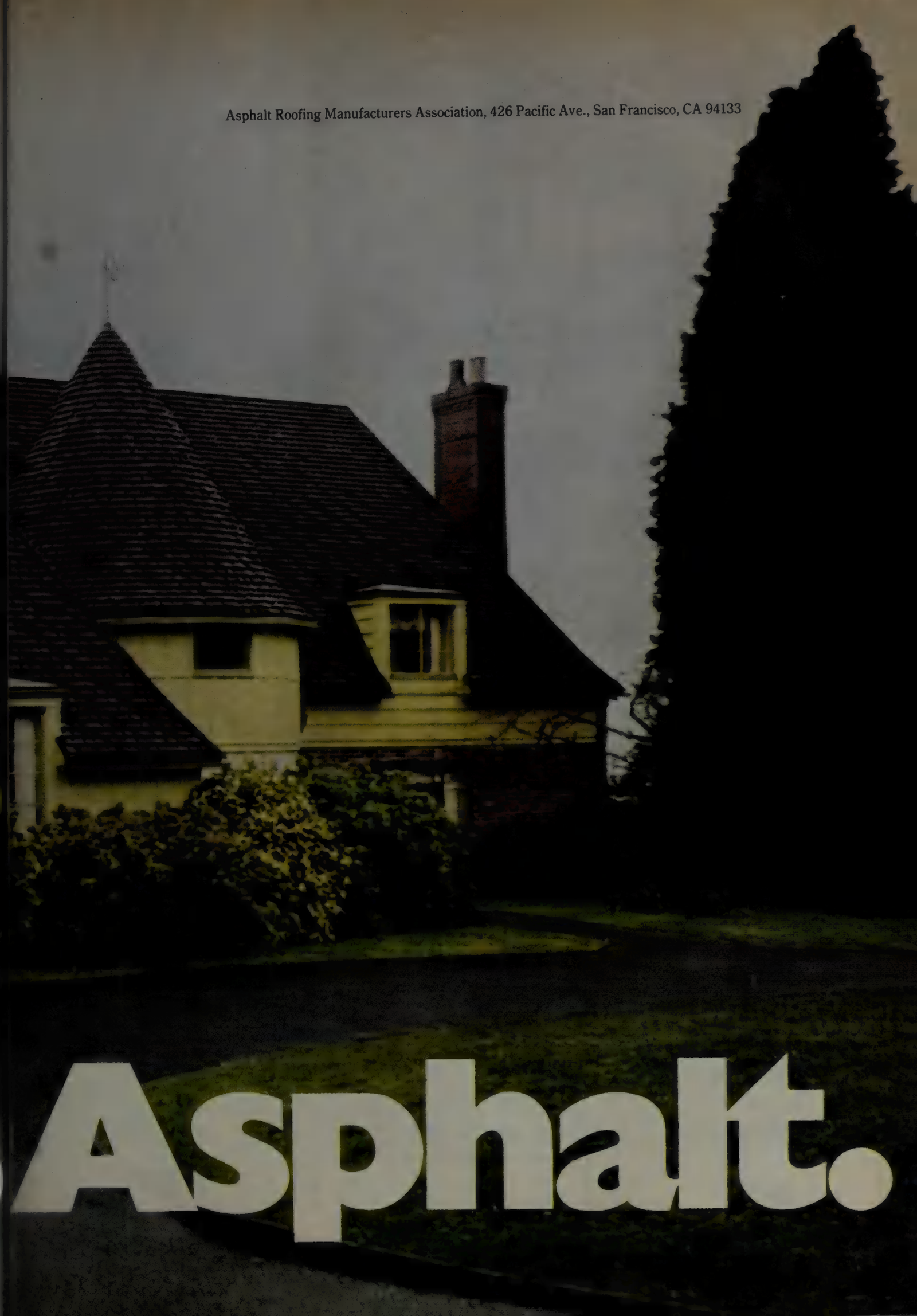

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DON NORMARK

Two walls *are redwood 2 by 12's; top line of posts supports 1-by-4 fence*

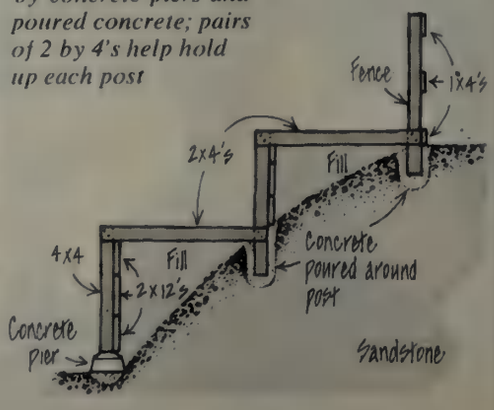
Step-up walls for sandstone slope

Digging postholes deep enough to support a retaining wall would have been almost impossible on a solid sandstone slope like this one in Santa Cruz, California.

But with these redwood step-up walls, the vertical 4-by-4 posts are joined to those above and below by pairs of 2 by 4's, so the posts help anchor each other. Only shallow concrete-filled holes were needed to support the middle and upper-level posts; concrete piers support posts on the lower level.

Owner Arn Ghigliazza knew he wouldn't have much success growing ground cover in the hard sandstone. So he designed the retaining walls to hold enough topsoil for planting. Ceanothus and cistus will soon cover the 2-by-4 braces. The 1-by-4 fence borders the parking area above.

Posts *are anchored by concrete piers and poured concrete; pairs of 2 by 4's help hold up each post*



I dreamt of a land where the mountains reached the sky and repeated themselves to the horizon and a thousand miles beyond.
For mountains lift my spirit and fill me with awe.

I dreamt of a land where the forests were ever-green and the creatures of the earth lived as they have always lived and were plentiful in their numbers. For green forests and the beings within them refresh my spirit and fill me with wonder at the miracle of life.

I dreamt of a land where waters were as much as the land, weaving amongst the forests and mountains and abutting the shores, filled with all the minions of the deep.
For waters that are clear and deep, marred only by the occasional vanishing troughs of man's passage across their surface, calm my spirit and fill me with tranquility.

I dreamt of a land with deep snows
and winters of white magnificence.
For winter challenges my spirit
and fills me with purpose.

I dreamt of a land with no crowds of people.
For too many people darken my spirit
and fill me with distraction.

I dreamt of beauty . . .
and was happy.

I dreamt of ALASKA

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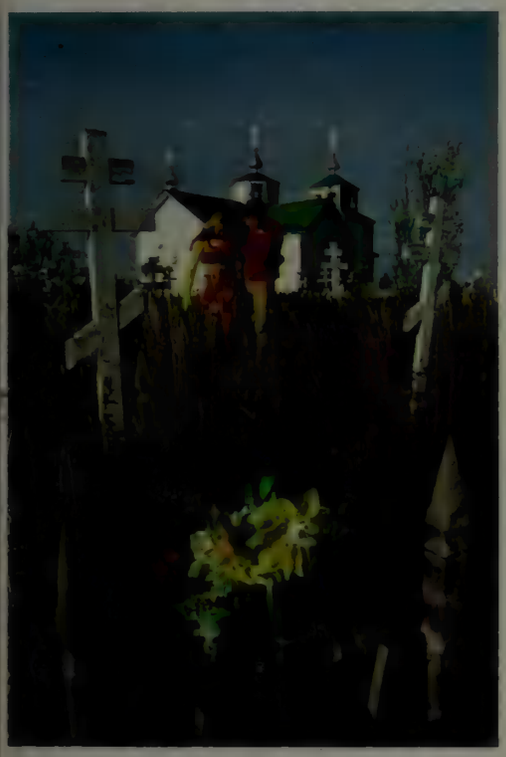
ALASKA IS SO MASSIVE that its proportions numb the mind. 586,412 square miles. 33,904 miles of tidal shoreline. A sub-continent stretching 2,400 miles from east to west. 1,420 miles from north to south. Alaska borders on two oceans and two seas. It's divided into four different time zones. It seems to be a land without end. The following pages attempt to present Alaska in an understandable perspective, in human terms. No brief section such as this can tell you all you need to know about travel to Alaska. But if your interest is whetted, send the coupon on the last page of this section and you will receive, at no cost, all the detailed information needed to plan the most exciting vacation of your life.



Alaska belonged to Russia, until the United States purchased the territory just after the Civil War. Influences of the Russian period are to be seen in Southeast, Southwest and Central Alaska today. You drive to quiet, peaceful communities on the Kenai Peninsula, or fly to Kodiak or Sitka, and step back into a simpler, less hurried time. Strolling through the grounds of a Russian Orthodox church is like stepping back into nineteenth-century Russia, but you're still in the United States. What an incredible buy, you realize. Russia sold us all of this great land for only two cents an acre.

Strangely, for all its vast "frontierism," Alaska can have a unique sophistication. Maybe style is more the word. Some of the most satisfying evenings are found there. An enthusiastic restauranteur, good friends, a respectable . . . and well-poured . . . wine, fresh-caught salmon, shrimp and crab from Alaskan waters. Somehow they all seem better. . . more real in Alaska. Maybe it's just because you want it to be, you think. But again, maybe it really is.

A continuous procession of small icebergs calve from the face of Columbia Glacier, float seaward and slowly melt in Prince William Sound. Thousands of harbor seals spend their lives on these floating ice beds. Standing on ship's deck, you mentally shiver deep inside as you gaze at them. "Poor devils," you think . . . but then you notice there's a whimsical look on those faces peering up toward you. In a flash, the seals glide into the water seeking refuge. Then a head surfaces, looking your way, and you grin, greeting a friend again.

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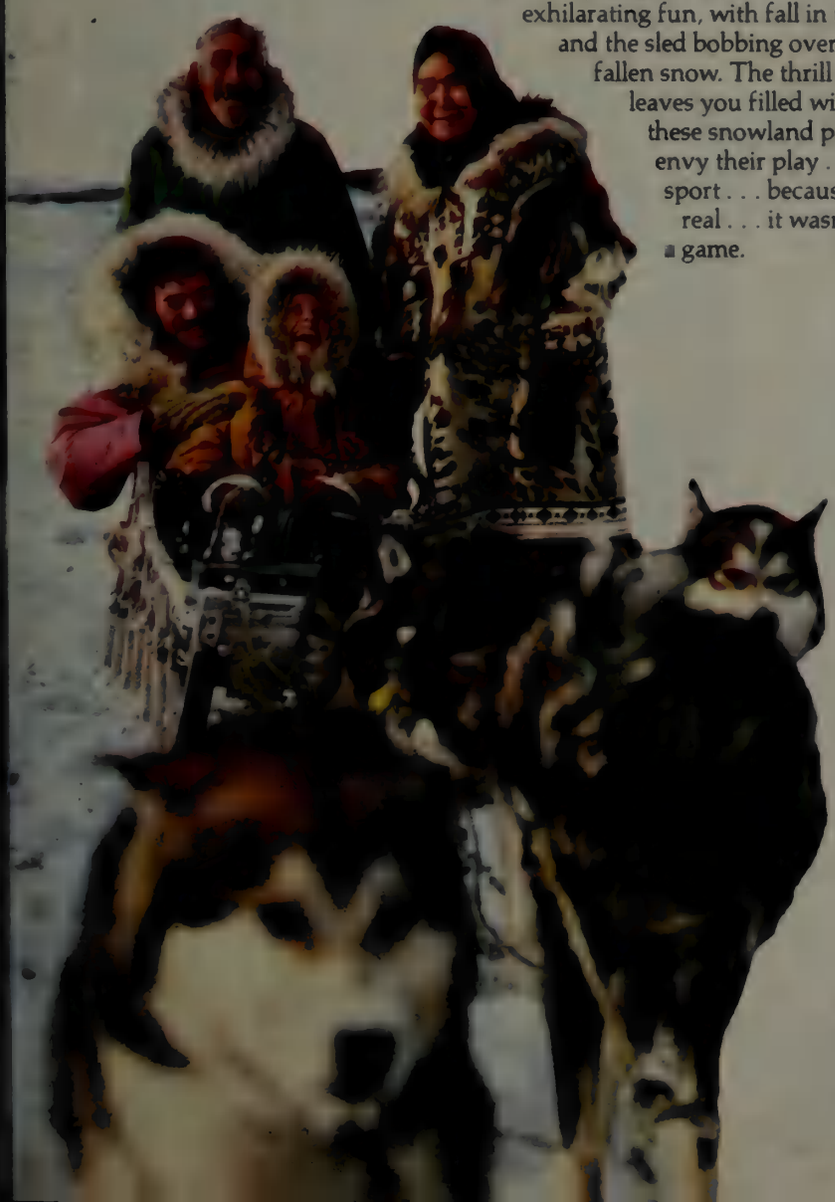
A-4

Anchorage, the commercial hub and home for nearly half of the state's 400,000 residents, is one of the youngest major cities in the United States. Anchorage today is an "air crossroads" to more than 1.5 million passengers who shuttle each year over the pole between Europe and the Far East or who fly on direct flights to Alaska from West Coast and Midwest cities. You don't know quite what to expect when your jet lands at Anchorage. The name sounds nautical, but driving into town you realize you've entered a familiar, modern city. Here Alaskans have pushed a hole in the frontier and made an exciting urban oasis. Your surprise makes it all the more exciting.

In Alaska, dog sledding is not just an historic curiosity. It's the official state sport. You remember the lure this sport held for you when you read far-north adventure stories. Then the lure became reality that day when the two of you joined an Eskimo "musher" friend for a sightseeing tour of his village. Seven sled dogs whisk you across the tundra. My God, you think, what exhilarating fun, with fall in the air and the sled bobbing over the freshly fallen snow. The thrill of the ride leaves you filled with envy for these snowland people. You envy their play . . . their sport . . . because it was real . . . it wasn't just a game.



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[illegible]en-foot whale of hammered [illegible] [illegible]per highlights the South Seas motif [illegible] the Whale's Tail Lounge and Restaurant.

Door pulls for Alaska's [illegible] banquet facility (seats 1,000) are brass replicas of South Sea Island Birds of Paradise.

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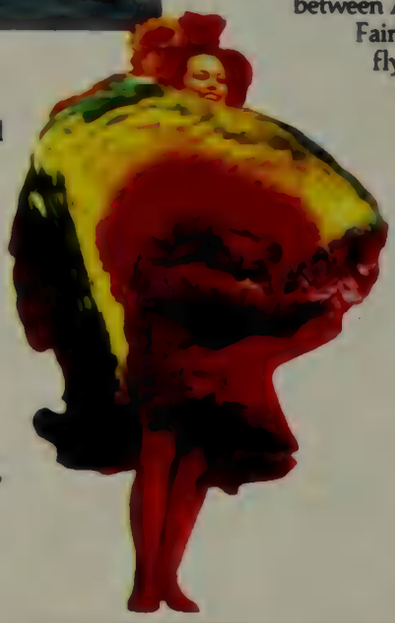
The Indians call it Denali . . . meaning the great one. It soars 20,320 feet into the sky. The highest slopes are cloaked in a perpetual mantle of glistening snow. Mt. McKinley is to Alaska what the Taj Mahal is to India, what the Pyramids are to Egypt, what the Acropolis is to Greece. North America's highest mountain simply grabs your imagination and holds it. You see this mountain from the train, you drive to near its base, and you routinely fly by it on modern jet aircraft. You feel you can almost reach out and touch it. Mt. McKinley shines with beauty. Enroute between Anchorage and Fairbanks, you're flying by the top of the continent . . . and you're still looking up.

With a whirl of her hooped skirt and a flash of Gay Nineties color, a dance hall girl creates anew the excitement, the dash and the anticipation which was North America's last great gold rush. So this is what it was like, you muse, sitting in Skagway's dance hall. You're on the gold rush trail to the Yukon, to Fairbanks, to Nome and beyond. Prospectors roiled and mucked this land in search of gold. What was it, you ponder, that drove men from family, home, work, friends to seek this mineral? Suddenly you realize a desire to explore . . . and understand why you, too, are compelled to see Alaska and the Yukon.



Around the corner and back a bit from the mountainside on which Juneau nestles there's a giant glacier. It's called the Mendenhall. A modern subdivision sits near its base. Glaciers become understandable in Alaska. Snowfall upon snowfall compacts, crushing each snowflake into glacial ice, which, pulled by gravity, seeks its way to the lowlands as an immense river of ice. Moving everything in their paths, glaciers grind and scour mountainsides. There's something good about walking or sailing right up to one. There it is, you think, and you can only say to yourself, "My God, glaciers are incredible!"

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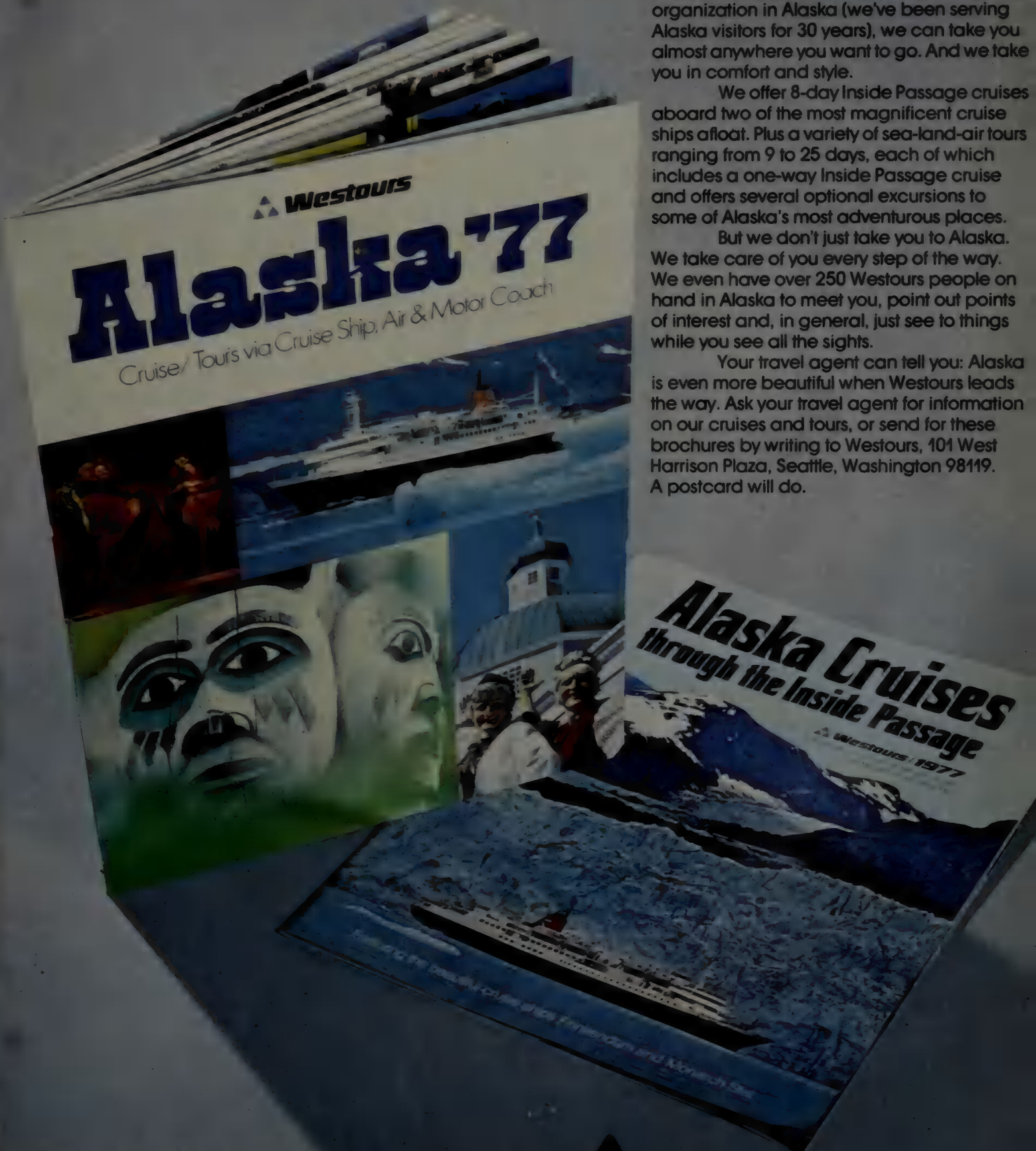

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But we don't just take you to Alaska. We take care of you every step of the way. We even have over 250 Westours people on hand in Alaska to meet you, point out points of interest and, in general, just see to things while you see all the sights.

Your travel agent can tell you: Alaska is even more beautiful when Westours leads the way. Ask your travel agent for information on our cruises and tours, or send for these brochures by writing to Westours, 101 West Harrison Plaza, Seattle, Washington 98119. A postcard will do.

Follow the leader to Alaska. Westours

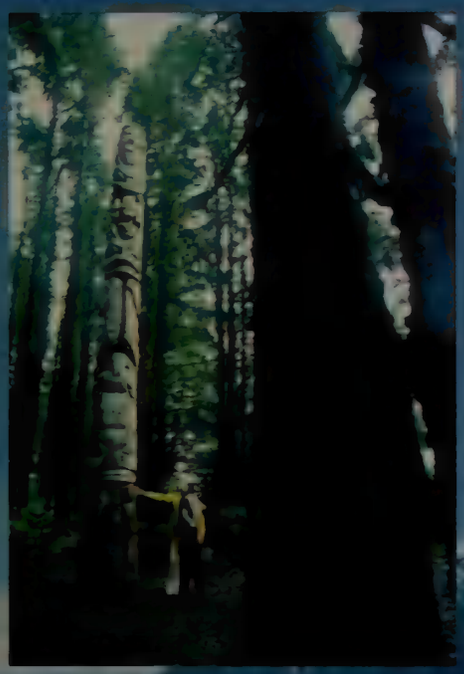
Nothing in Alaska is "human scale." Everything seems to be larger than life. Space . . . endless space and distance . . . is the indelible impression Alaska makes on you. Space begins right at your elbow and stretches as far as the eye can see. And it's all mind-expanding space. Space with grandeur in it. About a hundred miles northeast of Anchorage you step from your car or motorcoach and take a picture like this. It happens to be the Matanuska Glacier but that's not the important point. Important is that Alaska's the greatest drive-in attraction on earth . . . created not by Disney but by God.

The remembrances of a place are best preserved in things one brings back home. Which is why shopping is the universal addiction . . . and pleasure . . . of travelers. There's a profusion of craftwork in Alaska — animals, birds, and figures carved from walrus-ivory; soapstone sculpture, Indian and Eskimo masks of wood and skin; Aleut, Eskimo and Indian basketry made from reeds or baleen; fur garments like mukluks and parkas; display panels with totemic designs; smithery in copper, jade, silver and gold. Maybe it's clothing with a northern flavor that strikes your fancy. "Do you like this one?" she asks. "Yes, on you, I like it very much."

Advertisement

What makes men forsake city life and journey beyond the reach of friends and family? A hundred years ago the West produced its "mountain men," but Alaska spawns the "sourdough" . . . the prospector, the trapper, the trader who seeks the wilds and makes them home. You'll feel in yourself that "sourdough" spirit when you travel to Alaska. With cities behind and the vastness of Alaska stretching out before you, you'll understand why the sourdough chooses this way of life. Perhaps not for me, you think, but you come away with a tinge of doubt, puzzled by the powerful spell which this land casts on those who make it home.

With less than 10,000 miles of paved highway in a state twice the size of Texas, the airplane is Alaska's family car and only practical way to reach many outlying areas. From sleek jet airliners to single-engined airplanes, Alaska is, per capita, the airplane capital of the world. For the sportfishing enthusiast, or for the family which wants a sightseeing air tour, the ultimate extension of an Alaska vacation is chartering a float plane and being flown to a secluded lake, where there is only you, the lake, the beauty . . . and the fish.



Totem poles were the newspapers of the Northwest Pacific Coast Indians. They had no written language, so important events were recorded by carving the trunks of tall cedars that flourish in the rain forests. Totems were put in place, as one might put up a billboard, for all to see and understand. In Southeast Alaska, you find scores of these totems and you wander among them, enjoying them as primitive art but, even more, filled with wonder at the determination of human beings to record their existence. Then you realize, "That is what makes man . . . man."

The cultural heritage of the Forty-Ninth State springs from a deft joining of West with East. Ancestors of America's Native peoples crossed from Asia into Alaska over the Bering Sea land bridge and, in time, migrated east and south across the continent until blocked by the Atlantic Ocean. Much of the tribal ceremony and ritual of these peoples remains intact, as Native groups throughout Alaska seek to preserve their culture, art and lifestyle. You watch Eskimos and Indians perform ceremonial dances in full regalia to the beat of drums and sounds of chants. Such dancing plays a vital role in passing down through generations tribal history and wisdom. Though words and rhythm may sound foreign, the meaning is as clear to you as to the Native child who watches his parents dance.

In 1963, the state government created a marvelous thing — they call it the Alaska Marine Highway. It's just what the name suggests. A fleet of eight passenger ships operate high-frequency schedules to tie together communities in Southeast and Southwest coastal areas. The southeastern system also connects with British Columbia and Seattle ports. "I'll take a ferryliner to Alaska," you decide and find you're traveling through a virgin wonderland of clear blue waters, heavily forested shorelines . . . and peace. Perfect counterpoint to the pressures you've left back home, both of you agree, leaning on the rail in shirtsleeves, drinking in air so fresh you wish you could take a lifetime supply home.

Islands, bays, inlets and protected anchorages dot the forested coastline of Southeast Alaska's original route of travel to the Forty-Ninth State. You travel this famed "Inside Passage" by cruiseship or ferryliner from the Pacific Northwest. You stop at Skagway and Ketchikan, whose names recall the Indian heritage, at Sitka and Wrangell, names which stem from Alaska's colonial past, and at Haines and Petersburg, communities with more familiar names. You explore Juneau, the state's capital, where prospectors struck paydirt along the Gastineau channel and founded Alaska's first city following the purchase of the territory from Russia in 1867. You see it all . . . all of the Southeast . . . and you realize you've barely begun to see Alaska. But what a beginning!

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NORTHWEST ORIENT

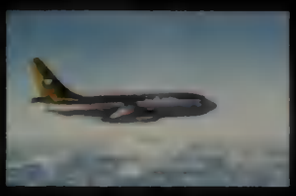
The best of both worlds

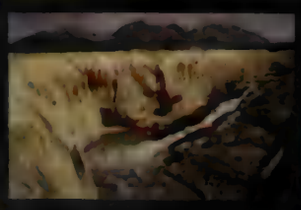
Alaska's a place far and beyond the hustle of urban life. Staying a few days at a country lodge, you and your family learn from its owner about life in "Bush Alaska," how he makes a living, raises a family, hunts and fishes. You go with him while he pulls crab pots in a nearby saltwater bay, then join in the family meal, perhaps fresh-from-the-sea king crab. "I'll always remember this," you think, as visions of city life push in unwelcomed at the edges of your mind.

A hush comes over the cruiseship passengers as they gather, cameras ready on deckside. You can feel the excitement mount as the front of a tall glacier draws near. When will the next massive chunk of ice break off? You shake your head in awe. All these glaciers . . . sixteen of them . . . impassively calving icebergs into the bay. Some of these glaciers are advancing, some are retreating. The mysteries of the ice age become understandable at Glacier Bay National Monument — the largest concentration of tidewater glaciers in the world. It's one of the world's scenic wonders. And you're right there . . . witnessing one of nature's most powerful forces at its unending work.

The oldest community in North America may be a tiny Eskimo fishing village on the Chukchi Sea north of the Arctic Circle. It's called Kotzebue. Eighty percent of the 2,500 residents are Eskimos. Historians estimate that Kotzebue has existed for more than 6,000 years, being a key foothold on the North American continent for the ancient migrations from Asia. Life in Kotzebue today is basic and uncomplicated . . . and visually spectacular during the summer months. The sun never sets for some 36 days and bathes the community with a wondrous glow of reddish light during its "midnight sun" hours. You pause on the beachfront as the realization sets in that you are near where man first set foot on North America.

ALASKAN ADVENTURES





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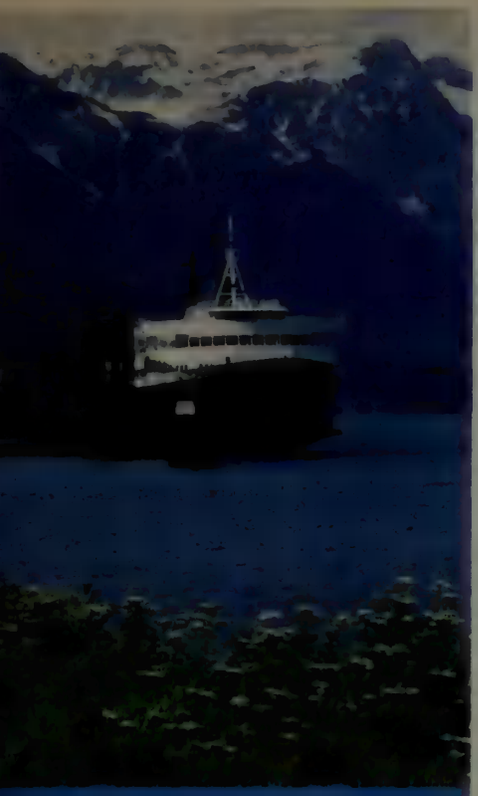
Midnight Exposure of the midnight sun and Eye-Catching Image above Arctic Circle



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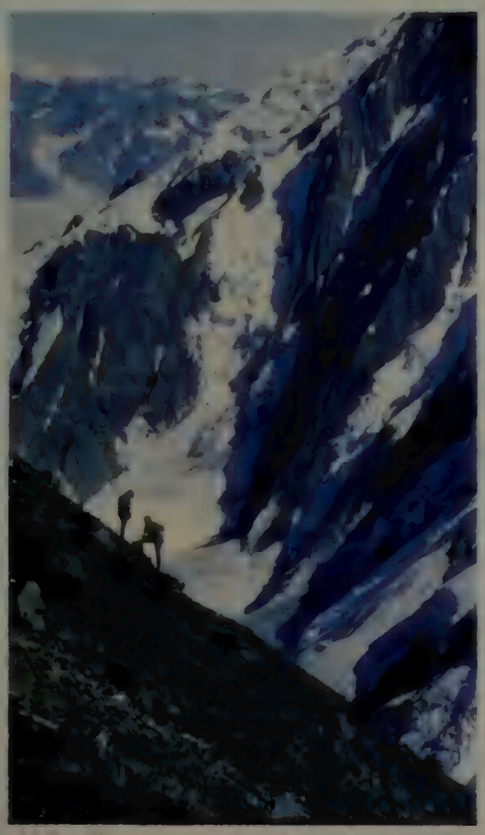
You can save, too — 15% off Alaska Marine Highway summer fares — when you travel between October and April. So make your reservations now. Our warm and comfortable ships are ready to take you on a fascinating tour of Alaska's famed Inside Passage.

See Alaska the way the seasoned travelers do. Travel off-season this year.

See your travel agent or write:
The Alaska Marine Highway,
Department G, Pouch R,
Juneau, Alaska, 99811

In the old gold mining town of Juneau, now the State capital, there's a saloon called the Red Dog. There's sawdust on the floor, swinging doors, and memorabilia hanging from the walls and ceiling. It's a real, down-to-earth saloon, the likes of which you'll find today only in Alaska. Getting together at the bar with friends and neighbors puts frontier life in perspective, humanizes it, rounds off, temporarily, a few of the rough edges. The whisky may be the same, you think, as you twirl the ice in your glass and strike up a conversation, but somehow it sure tastes better here at the Red Dog.



"Mountains are the beginning and the end of all natural scenery," wrote the famed English essayist John Ruskin in the mid-1800s. There are 39 mountain ranges in Alaska . . . not mountains . . . mountain ranges. Seventeen of the 20 highest mountains in the United States are in Alaska. By Ruskin's standard, Alaska is clearly our country's "natural scenery" capital.

Close your eyes!

Now—just use your imagination.
How about starting with the most magnificent

crimson sunset

you've ever seen. There, wasn't that beautiful? Now we're warmed up, try picturing a moon hanging like a great pearl over a

pink and azure lake.

There, that's fine! Now, just visualize the legendary Midnight Sun striking

gold

on the ripples of an

emerald river.

Superb! Now, here's a real breath-taker—a

valleyful of rainbow

—mmm spectacular! For a grand finale, just try to feel the awesome hush of a hundred wilderness miles of

deep purple mountains.

Really, none of these images could ever be captured on a page but they're all here. Come see for yourself.
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HOME OF THE KLONDIKE

Advertisement

If one were looking for the most distant point, it would be natural to pick Barrow, our country's northernmost community. It's only 1,200 miles from the North Pole. But if one were looking for the most remote point, it would probably be the Pribilof Islands, 1,100 miles south of Barrow, 800 miles west of Anchorage, out in the Bering Sea, north of the Aleutian Chain. The Pribilofs are a place of creatures... creatures of the sea and of the air... undisturbed and living as creatures should live. More than a million seals breed here, and more than 100 million birds sanctuary here, preening and congregating in vast geometric patterns. The seals . . . well, perhaps there's a lesson to be learned in nature . . . that big fellow . . . a 600-pound "beachmaster" with part of his 40-wife harem . . . he's telling them the rules . . . because he fought and won . . . against great odds . . . and now they will get about nature's business. And not a head is awry. There's something terribly reassuring about a majestic, unvarying order to things. It sets the mind — and spirit — at peace. Perhaps that is really what Alaska is all about.

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SUNSET

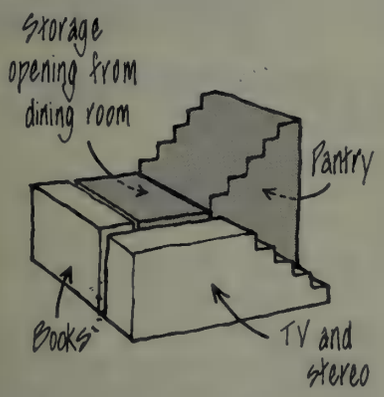
WERNER STOY

Television *(at eye level), stereo and records tuck neatly under low stairs*

Using all space under the stairs

Odd spaces under interior stairs are often simply walled over and ignored. But Honolulu architect James Pearson made maximum use of such space for storage in this University of Hawaii demonstration house.

Underneath this stairway are four spaces that can be reached from the four sides. The low area under the first flight of steps holds open shelving for stereo and television. Beneath the landing are shelves for books and a closed cabinet opening from the dining room. And from the kitchen, louvered doors open to a walk-in pantry under the higher stairs. □



Bookshelves *face hallway. Behind them is storage reached from adjoining room*

Mountainside retreat: Architect: Andrew Daland, Cambridge, Mass.; Cabot's Stains throughout.

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With The American Red Cross.

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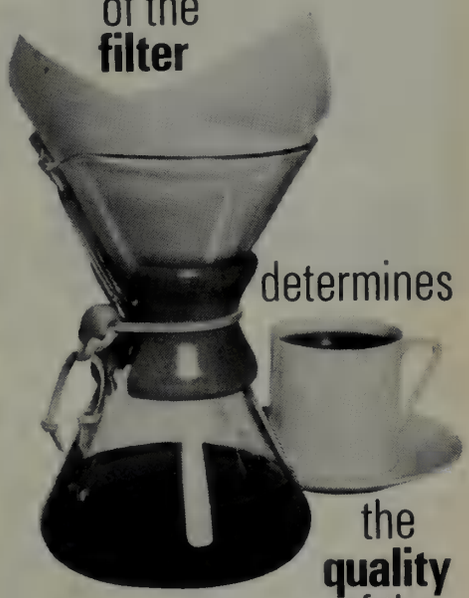

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Birdhouses are a gamble . . . they might as well be interesting

DARROW M. WATT

Hotel *(above), church, store (below) built from old wood. Dimensions vary according to species of expected occupant. Store base is about 5 by 5 inches, could suit a swallow. For appearances' sake, door holes are lower than experts suggest*

JERRY FREDRICK

A bank *or a schoolhouse? Basic box is nailed to platform, roofed, and ornamented according to builder Hugh Wayne's imagination*

There's no guarantee that even the most carefully planned birdhouse will attract residents. But for an amateur craftsman like Hugh Wayne of San Mateo, California, much of the fun is in the designing and building, and if his ghost-town birdhouses remain deserted he'll try again next year.

Since seasoned birdhouses are sometimes more successful than new ones, Mr. Wayne could be lucky because his are simple boxes built from old weathered boards, fence laths, shingles, knobs, and furniture scraps. He uses small nails to join the scraps, which he cuts to size with a handsaw.

An overhanging waterproof roof keeps out the rain, and a small drain hole in the bottom of the house lets out any water that might get in. A few small holes or a narrow slit underneath the eaves of the roof provide ventilation. Only a few nails hold down one side of the roof (so it can be removed for a cleaning-out after each winter).

To increase your chances of attract'n birds, you should build a house with particular species in mind. Dimension and the size of the opening will vary ac cording to the kind of bird you hope t shelter.

Before you start building, write or tel phone your local Audubon Society for list of recommended dimensions ar other useful information. Or you ca buy a 16-page booklet from the Nation Audubon Society (950 Third Ave., Ne York 10022) that tells what factors yo will need to consider. Called *Bird A tracting*, it costs $1.80 postpaid.

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Tyson Cornish hens rank right up there with juicy T-bone steaks as very special treats to serve your family or friends. But tasty Tyson Cornish hens are so much more affordable and more versatile, too. Cornish hens are just as much at home nestled in wild rice amidst your most elegant table settings as they are drawing a hungry crowd to your backyard barbeque grill.

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GLENN CHRISTIANSEN

Farberware Food Processor *$140*

A nicely finished tool manufactured in Japan, it has adequate power for most jobs. Slicing, grating, chopping, and stirring blades are included. Cast metal base houses rear-mounted motor with belt-driven power shaft. Large top tube makes it easy to feed in potatoes, other big vegetables. Present blade designs result in some unevenness in slicing, chopping operations

Epicurean Food Processor *$100*

(Also sold as American Food Processor). This U.S.-made machine with G.E. motor has slicing, grating, chopping, stirring blades. We found unevenness in chopping parsley, peanuts, meat, some other foods. Very early models were difficult to operate due to misfitting plastic casts: Manufacturers say this has been corrected and they'll supply new free blades to owners who have filed their warranty cards. This machine is U.L. listed

Sunbeam Mixmaster *$84 to $110*

A good variable-speed U.S.-made mixer, it's no match for powerful (more expensive) mixers when kneading heavy dough. Mixer blades, dough hooks, two stainless steel bowls are included. Attachments available: citrus juicer, $8.25, meat grinder with adapter, $35. Juicer easy to mount and use; meat grinder with speed reduction adapter is strong enough for normal home use

Other labor-saving kitchen machines readers have asked about ...two new ones, one old-timer

Reader response to our December article, *Kitchen machines are multiplying* (page 68), demonstrated a healthy interest in the field of labor-saving kitchen machines. Here's a brief update.

Most queries concerned the new food processor-type tools like the well-known Cuisinart. Feed these machines some food, and they chop, slice, grate, grind, purée, and knead—all in a matter of seconds.

Readers also have asked us about the nation's best-selling mixer, the Sunbeam Mixmaster. Fitted with attachments now available, it too is a versatile machine.

A report on two newcomers, Farberware and Epicurean

Since December two more processors have arrived to challenge the Cuisinart: the Farberware Food Processor, which was mentioned in our article but had not been available for testing, and the Epicurean Food Processor, which appeared on the market just a few days before Christmas.

Both are designed to do what the Cuisinart does—and they do, with various degrees of success.

Although their performances generally fall below that of the French-made machine, so do their price tags: The Cuisinart sells for $225, the Farberware for $140, and the Epicurean for $100.

Generally, if you want the best machine you'll have to pay the most, but if you think you're willing to work with one that is at times a little slower, or less consistent in its chopping or slicing, then consider one of these two newest models.

The familiar Mixmaster

As with the processors, if you don't demand the ultimate in strength and versatility, consider this lighter duty, less-expensive machine.

We tried all the attachments for the Mixmaster and found their performance to be quite good, except when kneading the large dough recipe we had used with the other machines (6 cups flour, 2½ cups water, 2 tablespoons oil)—it performed adequately on half of it.

If you already own another kind of mixer-type machine and are considering a processor, you might instead add a slicer-shredder attachment to your present model and buy a good chef's knife for chopping. Slicer-shredders are available for many models, although not the Mixmaster.

It's Sears Open Hearth
Bedroom Furniture

Superb construction, 26-step finishing, and an outstanding price make it a great value. We urge you to compare:

Examine the Drawers

It takes time, care and true craftsmanship to make drawers that will *continue* to work beautifully.

When you shop and compare, these are all the drawer construction features to look for: ball-bearing slides, positive drawer stops, tongue-in-groove bottoms, dovetail joints, no-snag insides and anti-wobble discs. You'll find them all in Sears Open Hearth.

Look for Inner Frame Strength

If the inner construction of the frame doesn't include these features, its outside beauty won't last as long.

Tongue-in-Groove and Mortise-and-Tenon Piece Construction. Ordinary butt-edge construction won't last as long.

Corner Cleats and Glue Blocks for extra strength.

Recessed Back Panels to add stability to the frame.

Adjustable Casters and self-levelers on all larger pieces.

Sears ✱ Best

Meticulous 26-Step Finishing

Only firm, evenly textured, kiln-dried northern white pine and fine grade white pine veneers are carefully chosen for Sears Open Hearth.

The satin glow and warm highlighting you'll see when you shop and compare take 26 painstaking finishing steps to achieve. There is no shorter method to bring out the beauty of northern white pine and make it last.

Choice of Pieces

There are 13 different pieces in the Sears Open Hearth Bedroom and 41 more in Sears Open Hearth Dining Room, Family Room and Living Room. Plus a host of Open Hearth coordinated accessories.

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Sears OPEN HEARTH

Souped up chicken.

Lipton presents 3 easy ways to make an extraordinary meal out of ordinary chicken.

Add some pizazz with Lipton® Recipe & Soup Mixes—zesty flavor combinations that make an ordinary meal special. And a special meal spectacular.

Pick up all three Recipe & Soup Mixes. And soup up a chicken tonight.

1. Onion-Orange Glazed Chicken
(Pictured above)

1 envelope Lipton Onion soup mix
1 can (6 oz.) frozen orange juice concentrate, thawed
12 drumsticks (or a 2-2½ lb. chicken, cut into serving pieces)

Preheat oven to 400°.

In small bowl, blend Lipton Onion Soup mix and orange concentrate.

In large, shallow baking pan, arrange chicken; brush with half the onion-orange mixture. Bake, basting frequently with remaining mixture, 45 minutes (1 hour for chicken pieces) or until chicken is tender. Makes 4 to 6 servings.

2. Skillet Chicken and Mushrooms

2 tablespoons butter or margarine
2 to 2½ pound chicken, cut into serving pieces
1 envelope Lipton Beef Flavor Mushroom mix (or 1 Onion-Mushroom mix)
1 can (16 oz.) whole tomatoes, undrained
1 onion, sliced
1 clove garlic, finely chopped

In large skillet, melt butter and brown chicken. Stir in Lipton Beef Flavor Mushroom mix blended with tomatoes, onion and garlic.

Simmer covered, stirring occasionally, 45 minutes or until chicken is tender. Makes about 4 servings.

3. Chicken Creole Bake

2 to 2½ pound chicken, cut into serving pieces
2 envelopes Lipton Onion-Mushroom mix
2¼ cups boiling water
1 can (16 oz.) whole tomatoes, drained and chopped
1 cup regular rice
1 cup chopped green pepper

Preheat oven to 450°.

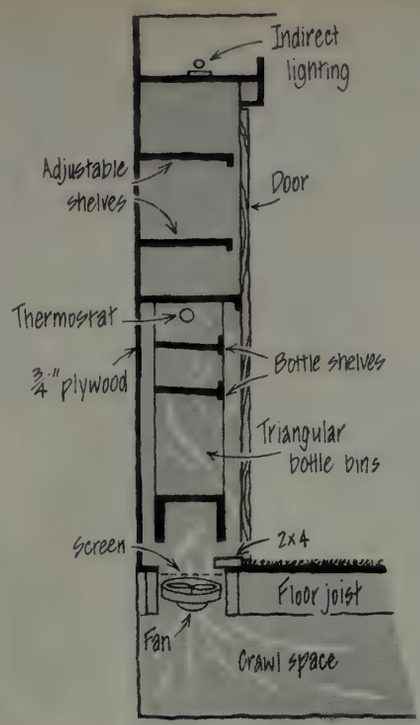
In 3-quart oblong baking dish, place chicken, skin-side up, in single layer; bake uncovered 30 minutes.

Reduce oven to 350°. In medium bowl, blend Lipton Onion-Mushroom mix with water, tomatoes, rice, and green pepper; add to baking dish. Bake covered 30 minutes or until chicken and rice are tender. Makes 4 to 6 servings.

Lipton Onion, Onion-Mushroom and Beef Flavor Mushroom. In the boxes with the blue band.

The soups you cook wit From Lipton.

His wine cellar has simple built-in cooling



RICHARD FISH

Bottle bins *and slightly slanted shelves keep wines accessible, air from the crawl space keeps them cool. Diagram shows how fan circulates cool air around the wine bottles*

built-in cooling system distinguishes is wine closet from most storage units. /est Los Angeles architect Arthur Finkstein designed it to take advantage of e cool air in the crawl space beneath e floor. Two small fans under the bot- bins draw air from the crawl space d direct it up into the closet through a nt. (In the photograph, you can see e vent just above the 2 by 4 that runs ong the carpet behind the bifolding ors.) Air then flows out through holes illed in the closet's top.

thermostat above the top wine shelf gulates the temperature; it turns on e fans whenever the temperature in the oset tops 65°, cuts it off as soon as e cooler subfloor air has brought it low 65°. Except on the very hottest ys of the year, the subfloor air stays cool enough to accomplish this.

Wines intended for later use are stored in the triangular bins; those ready for the table move to the two slightly inclined shelves, where labels are visible.

Instead of converting an existing closet, the owners installed this unit at one end of their dining room. It also provides storage for silver, serving pieces, and table linens on upper shelves. □

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Here's 10¢ off Bite-Size Tabby® to prove it looks, serves, and smells neat.

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STORE COUPON TC-61

10¢ **Good only upon presentation to retailer on purchase of product described. Any other use constitutes fraud. Expires: Dec. 31, 1978.** 10¢

New Tender Chunk™ Ham.
It does everything tuna does except swim.

What a great idea.

Real honest-to-goodness ham you can flake with a fork just like tuna and use in sandwiches, salads, casseroles, and hors d'oeuvres.

Look for it in the supermarket. Next to the tuna section, of course.

Hormel

RICHARD FISH

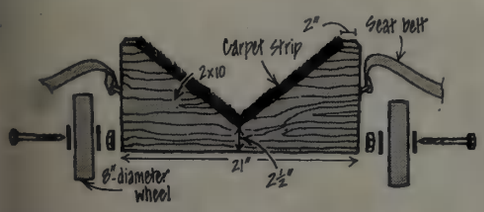
Caddy *lets one man pull heavy canoe down to water's edge. Note how seat belt straps across gunwales*

Canoe caddy . . . one man can handle

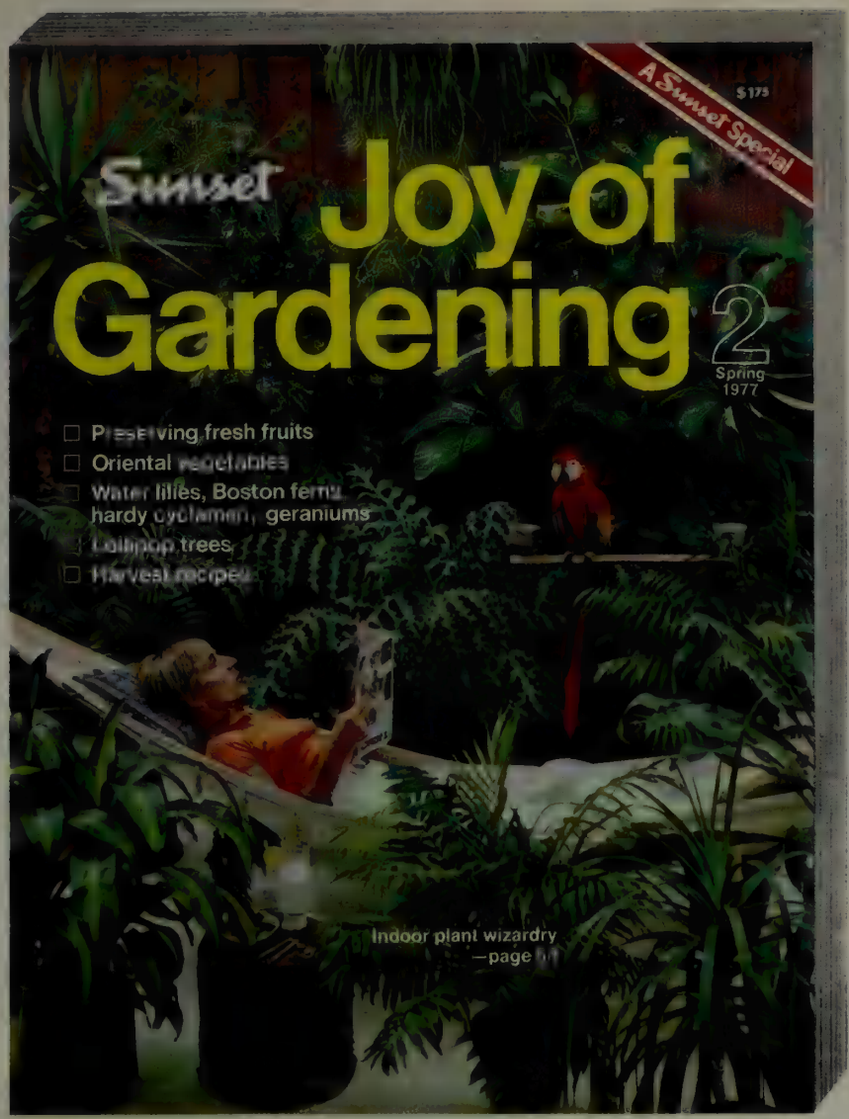
A canoe is an awkward thing for one person to handle, even if it's made of lightweight aluminum or fiberglass. This simple caddy made from a piece of wood and two inexpensive wheels can help.

Jerry Kasparek of Corona Del Mar, California, designed it so he can pull his garage-berthed canoe to a nearby marina. In a 21-inch length of 2-by-10 fir he cut a deep notch to fit the keel, then screwed two 8-inch-diameter wheels into predrilled holes in the caddy's ends. (You can buy wheels in most hardware stores. While there, purchase lag screws and washers to fit them.)

Mr. Kasparek used an old seat belt for the strap. Many seat belts come with anchoring hardware that can be attached to the 2 by 10. To pull the canoe, he uses a handle made of ¾-inch wood doweling attached to the bow painter. □



Choose *a fir 2 by 10 without cracks, cut a deep notch, and pad it with a carpet strip. Wheels turn between washers*



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The garden world

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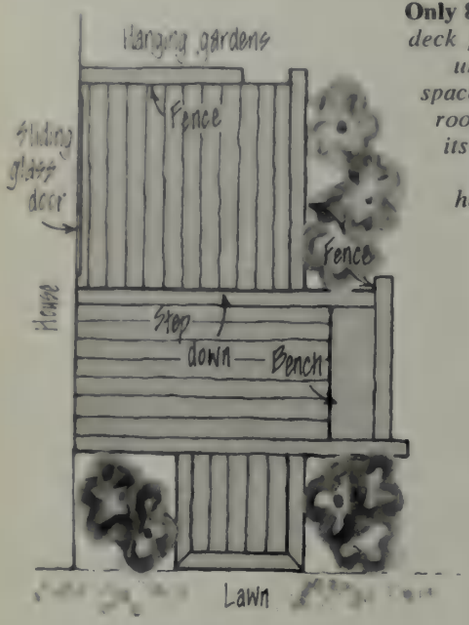
A narrow side yard deserves a chance. Look what can happen



Offset fence *screens narrow deck from neighbors, accommodates built-in bench*

BILL ROSS

Only 8 feet wide, *this deck puts previously unused side-yard space to work. Two rooms look out on its lush container plantings and hanging gardens*

This narrow side-yard deck adds to the owner's living space, screens one side of the house for privacy, and provides a stage for the family's plant collection.

Designer Darrell Ebert built it for his own home in Corona del Mar, California. He chose redwood 2 by 4's for the decking and laid them over 2 by 6's floating on concrete piles. A sturdy, staggered fence of rough-sawn 3 by 3's nailed to a 2-by-4 framework screens the deck from the neighbor's yard. He surrounded and roofed the hanging garden area with lath to temper sun and wind.

To protect wood surfaces from water marks and discoloration Ebert rolled on a mixture of 5 parts penetrating water sealer and 1 part natural redwood stain.

Two interior rooms look out on the side-yard landscape: The bathroom faces the trellised garden's small jungle of ferns and bromeliads, and a sliding glass door opens from the family room onto the deck. □

Scholl can give you beautiful skin with the help of a very, very ugly little bean.

In hand and body lotion departments.

A cocoa bean may not be very impressive to look at.

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Scholl Softening Lotion helps prevent dryness by creating a unique moisture balance that lets skin retain its own natural moisture content. So, your skin will feel smooth, without feeling greasy.

That's why it's so good for the problem areas like legs that have to stand up to harsh, cold winters and hot, dry summers.

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In fact, Scholl Softening Lotion will make you feel smooth and soft everywhere you use it.

A cocoa bean may be ugly. But it's one of the reasons Scholl can make your skin so beautiful.

Scholl

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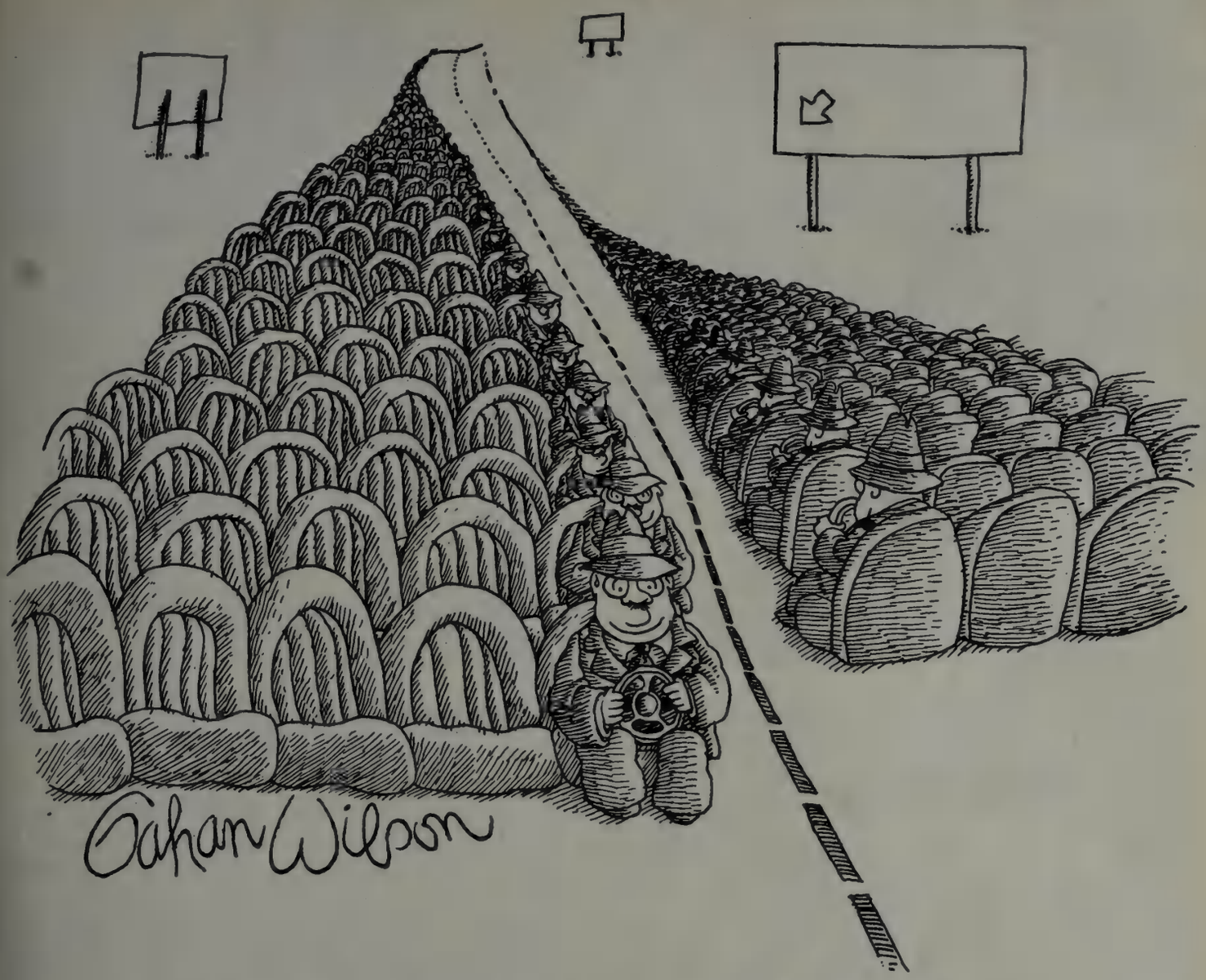


In this morning's rush hour, empty seats outnumbered full seats 4to1.

In a city the size of Los Angeles, that's 9,000,000 empty seats in cars jammed up on the freeways. And that's a horrible waste.

If we could just get the average number of people in a car up from the current 1.4 average to 2, we'd save 21 million gallons of gasoline a day. And take 15 million cars off the road during rush hour. That's almost a third of what's out there every day now.

And it could do all that without costing you a cent. In fact, you'll probably cut your commuting costs in half when you ride with somebody else. Or have somebody ride with you.

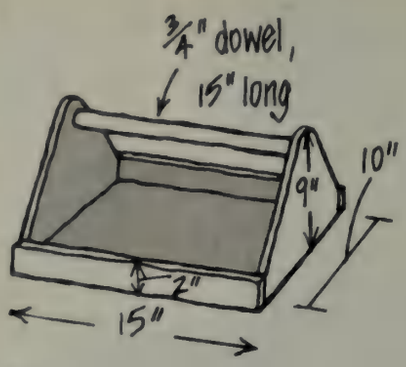
It's something to think about today. And do something about tomorrow.

Share the ride with a friend. It sure beats driving alone.

Ad Council

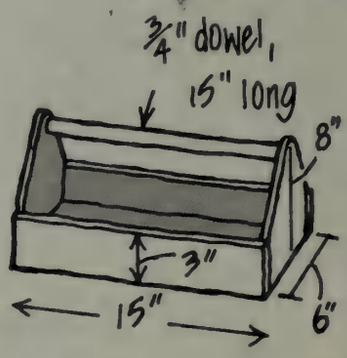
A public service of this magazine, The U.S. Department of Transportation and The Advertising Council.

W. D. A. STEPHENS



Garden carryall

Low sides (2 inches high) allow easy access to seedlings, tools, garden supplies. Box is big enough to carry pots up to 6 inches across



Under-the-sink tote box

Narrow, higher-sided box takes little storage space, is sized to hold hammer, screwdriver, pliers. Same design would be useful for holding several house-cleaning supplies

Easy-to-make household carryalls

For carrying odds and ends, nothing has come along that's handier than the traditional carpenter's toolbox. The design is easy to adapt for lightweight carryalls that are useful around the house and garden.

For each of the carryalls shown here, you'll need just five pieces of ½-inch plywood plus doweling for the handle. Dowels are glued into drilled holes; they could instead be attached with glue and lag screws or long woodscrews. You can follow the dimensions in the sketches, or adapt sizes to your own needs or materials on hand.

A few minutes of sanding prepares the surface for finishing and lessens the chance of slivers. You can seal the tote boxes with a clear finish or paint them as colorfully as you like. □

There are a number of reasons for owning a Bolens® Mulching Mower.™

Patent #3,085,386 is one of them.

This is the mower that takes care of its own grass clippings. Saving you time and work.

The unique fully-enclosed mower housing sets up the grass with suction. Then, the exclusive multi-pitch blade cuts and re-cuts the clippings into a fine mulch that's blown down into your lawn.

So you won't have to bag or rake. But you do have to make sure you ask for the Bolens Mulching Mower. It's one of a kind.

The housing, blade and mulching action are fully-patented.

Other features include front wheel drive and Grip 'n Go safety control. You can choose manual or electric start. Or self-propelled or push models.

For the name of the Bolens dealer near you, check the Yellow Pages or write FMC Corporation, Port Washington, Wisconsin 53074.

FMC Consumer Products

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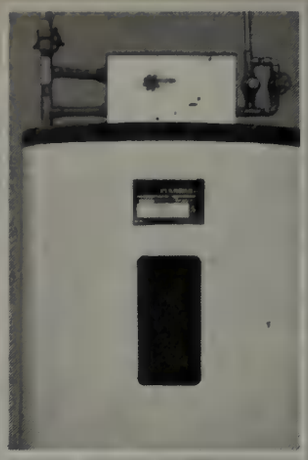

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BILL ROSS

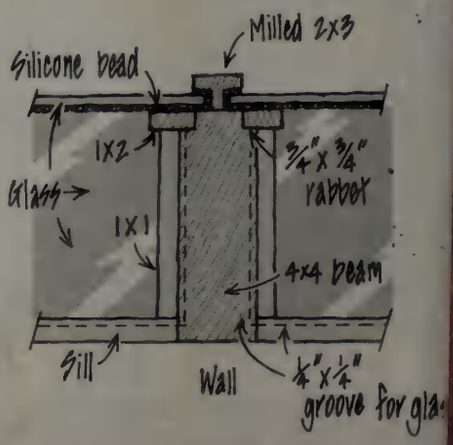
Generous skylights *between beams make wall look like a freestanding partition*

Skylight turns the corner

Beams seem to end in open air along or entire side of this remodeled living roor The illusion comes from glass laid ove head between exposed beams and s vertically between them.

Owner Darrell Ebert of Corona del Ma California, designed the skylight to he open the room to sky and trees.

He removed the lower 3 feet of ro decking and exposed each beam down where it rests on the wall. Vertical pan of ¼-inch tempered glass were fitt first; they slip into ¼ by ¼-inch groov cut into the beams and into a slopi redwood sill. The overhead panes fit ov 1 by 2's notched into the upper corne of the beams. A ½-inch gap betwe these panes allows space for a 2-by nailing strip milled to a T shape. Silico caulk seals all joints.



End view's *dotted lines show how vertical panes are recessed into beam and sill*

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To make it in the little car business these days, you've gotta have heart.

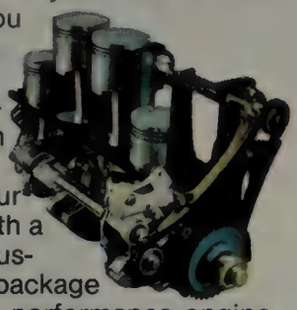
35 MPG HWY. 20 MPG CITY

Our little Arrow will give you miles and miles of heart, all on a gallon of regular gas. In fact, EPA estimates for California show a Plymouth Arrow with a 1.6 litre engine and manual transmission getting 35 MPG on the highway and 20 in the city.*

And while Arrow's lowest California base sticker price is **$3,365,** you're getting a lot more than a straight Arrow. You'll get standard equipment like a piston operated hatchback, fold-down rear seat, power front disc brakes, even tinted glass. If you want more than that, ask for an Arrow GT (like the one shown below). You'll get such additional standard features as

styled road wheels, woodgrain instrument panel, and quarter windows that flip open. All for **$4,255** (including $171 for optional wheel trim rings and AM/FM radio). You don't have to be a big shooter to own an Arrow.**

Want your Arrow to be the strong silent type? Order it with the optional 2 litre silent shaft engine. A counterbalancing system cuts vibration and noise. For a 4-cylinder, it offers a quiet almost unheard of.



Finally, if you want a swift Arrow, you can have your Chrysler-Plymouth dealer equip your Arrow with a special suspension package and such performance engine parts as intake manifold, headers and special pistons.

So, if you've been waiting for the right little car to come along, take heart. Tell your Chrysler-Plymouth dealer you'd like to buy or lease a Plymouth Arrow.

ME & MY ARROW

PLYMOUTH ARROW.

The little car with a lot of heart.

Plymouth

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*Your actual mileage may differ depending on how and where you drive, the condition of your car and its optional equipment.
**Base sticker prices excluding taxes and destination charges.

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Because we know the Orient, we'll show you its hidden wonders as well as its fabled sights.

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But don't take our word for the value of JAL Happi Holidays. Make your own tour comparisons. To help you do just that, JAL has published its 1977 Orient Tour Buying Guide, which not only translates travelese into English but also enables you to make item-by-item comparisons of several tours.

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The memories begin the moment you step aboard JAL, as you fly to the Orient on the airline that was born there.

For more information about JAL Happi Holidays, see your travel agent or call Japan Air Lines. And to get the most Orient for your money, ask for your free copy of JAL's 1977 Orient Tour Buying Guide.

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Another way we never forget how important you are.

JAPAN AIR LINES

HAPPI JAL HOLIDAYS

NORMAN A. PLATE

Paintings *can be hung from metal tubing that's been bent into hooks and shaped over the doortops*

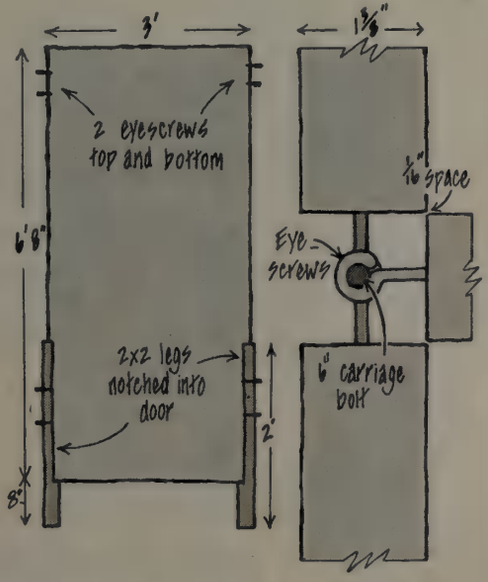
To join doors, *slip 6-inch carriage bolts through eyescrews at top and bottom; secure with nut*

They use hollow-core doors to make an art display

You can create wall space to display artwork or to divide a room with this movable and highly flexible system designed by E. M. Salmon of Kailua-Kona, Hawaii. It uses hollow-core doors: two to make a simple L, three for a T, four to make a cross, and so on. The more doors you add, the more versatility you achieve.

Hollow-core doors 1⅜ inches thick and 6 feet 8 inches high are sold at building supply stores, usually in 24 to 36-inch widths with various facings. The ones shown here are 36 inches wide with an inexpensive hardboard facing; they cost $15 to $18 each (less on sale).

Begin by attaching inset legs and adding pairs of eyescrews near the top and bottom edges of each door. To join units, line up the eyescrews and drop through a carriage bolt, as pictured at upper right. The eyescrews are in slightly different positions on each door so that any door can be joined to any other. □



Each panel *has eyescrews on one or both sides, depending on intended position. Notch lower sides to accept legs; woodscrew in place. At right is a three-panel T grouping, seen from above*

JAL's Happi Holidays Tours

Check boxes below for more information and return coupon today to: JAPAN AIR LINES, Box 618, N.Y. 10011

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*Prices based on double occupancy and G.I.T. Economy air fare from West Coast, and subject to change. Additional charge for June-Oct. peak season.

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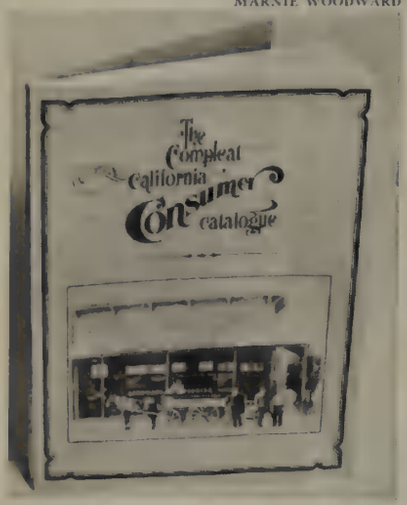


A catalog of help: repairing, buying, selling, even suing

If repairing cars, buying health insurance, finding a real-estate loan, or handling unsolicited solicitors are things that you might need help with, you may want to send for a copy of *The Compleat California Consumer Catalogue*, edited by Janice Lowen Agee (California State Department of Consumer Affairs, 1977); it costs $1.50, tax included.

This 194-page (9 by 12-inch) paperback catalog is easy to read and abundantly illustrated. It offers advice or sources of information on a multitude of subjects from misleading advertising to bad-tasting water.

Perhaps the most valuable section describes recourses available to you—from trade and safety commissions to courtroom procedures. Though written for Californians, much of the information is general enough to be helpful to consumers in other states.

Concrete pump saves your back

Just the thought of hand-wheeling hundreds of pounds of concrete from the driveway to another side of the house has probably ended many patios, walkways, or room additions before they began. If you want a slab or perimeter foundation poured and the ready-mix concrete truck can't get near the forms, consider hiring a concrete pump.

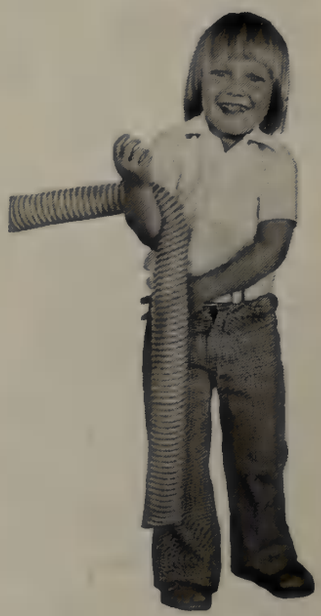
Small pumps (you see one in the background at right) are trailer or truck-mounted rigs into which the delivery truck dumps the concrete. The concrete is then pumped through a heavy-duty hose to wherever you want it, no matter what the terrain—you can even run it through the house. Hoses extend up to 250 feet. For large jobs, truck-mounted pumps with aerial booms are available.

Companies are listed in the yellow pages under Concrete Pumping Service. The pump man should coordinate the delivery time, but you should be ready to man the hose and do the finishing work during delivery. The pumping goes fast, which saves you expensive truck standby time.

Though prices vary, the service usually costs about $70 for the first 6 yards or less, $4 per additional yard.

NORMAN A. PLA

DON NORM



Weather-strip worm made from scrap fabric

This dry year, Western houses are shifting more than usual as expansive soils shrink for lack of water. This sometimes results in drafts from uneven seals around doors, even those already weather-stripped.

Christian Ghigliazza (above) of San Cruz, California, demonstrates an ea way to seal off those heat-robbi cracks. His mother, Charlotte, made tube from a 10 by 36-inch scrap fabric, then loosely filled it with san During chilly weather it stays wedg against the door, then hangs on t doorknob when not in use—unl Christian is dancing with it. (Tl worm also helps keep out bugs).

Gifts from Europe for your house

It would be hard to justify a trip to Europe just to purchase hardware, but if you're already planning to go, take time to discover the rich and varied selection of doorknobs, drawer pulls, hinges, wall plates, and even plumbing fixtures that are available abroad.

Prices are about what you'd pay at home for the same types of things. And while most hardware is not lightweight, most pieces won't take up much room in your suitcase.

Instead of the American term "hardware store," in Denmark look for *isenkraemmer;* in England, brassmonger or ironmonger; in France, *quincaillerie*; in Germany, *Eisenwaren* or *Metallwaren*; in Italy, *ferramenta*; in Norway, *isenkram*; in Spain, *ferretería*; and in Sweden, *järnaffär*. Even if you don't buy anything, the richly embellished display walls, like those shown at right and below, are worth seeing.

Keep in mind that European hardware is not standardized for the American home and jot down some measurements before you leave. Items such as pulls or hinges present no problems but, for instance, European pipe threads are often different, as are the dimensions of some doorknob shafts. (If you like something that won't fit, you may be able to have it rethreaded, or welded to an American part.)

MARYLEE MACDONALD

A quick way to visualize that remodeling or building job

Remodeling or just rearranging can be made easier by careful planning. The fact that it's much easier to move pieces of paper than to move walls or pieces of furniture is the simple idea behind the *Home Designer* kit, now available at hardware stores, home improvement centers, or from P.O.C. Magna-graph, 946 Elm St., Orange, Calif. 92667.

Each kit contains over 500 ¼-inch-scale sticky-back, pressure-sensitive paper symbols for furniture, appliances, walls, doors, windows, and even plants. An extra blank sheet of sticky-back paper allows you to make odd-sized or odd-shaped pieces of furniture or curved walls.

You'll also get a ruled grid board with the scaled equivalent of 4,000 square feet. It has a slick surface that allows repositioning. The kits sell for $9.95, or less in some areas.

Do you know how to shut off your utilities?

In order to cope with the ever-present threat of fire, earthquake, or other emergency, your family should know how to shut off your water, gas, and electricity.

For most houses, the main water valve is buried in a concrete meter box out by the street; it's on the house side of the meter. Make sure it can be turned easily, and keep a valve handle or wrench hidden nearby. While you're at it, check for leaks or running toilets by watching the meter for any movement after you've turned off all the taps in the house.

The gas shut-off valve is on the pipe leading to the meter. When in the ON position, the rectangular valve is parallel to the pipe. To shut the gas OFF, rotate the valve one-quarter turn in either direction, so the valve is perpendicular to the pipe. These are stiff valves, so you'll need a wrench with lots of leverage; keep it near the valve if possible. Utility companies urge you to turn off your gas only in an emergency, but if you do it, remember to relight all the pilots when you turn it back on.

Most electric panels have a master switch for shutting off all power. Locate it and try throwing the switch; all the dials in the meter should stop turning if you've turned off all the power.

If you have any problems, ask for assistance from your utility supplier.

Put yourself in the picture. This one. In the Tetons.

Imagine yourself hiking, riding, and roaming amid 500 square miles of some of the world's most beautiful scenery. With soaring mountains, shimmering lakes, and dancing streams and waterfalls. Or riding a raft down the magnificent Snake River. Or playing golf or tennis. Get the picture? It can be yours, in the Tetons. Soon. With your choice of accommodations from camping facilities and cabins to luxurious lodges. Ask your travel agent.
And mail our coupon today.

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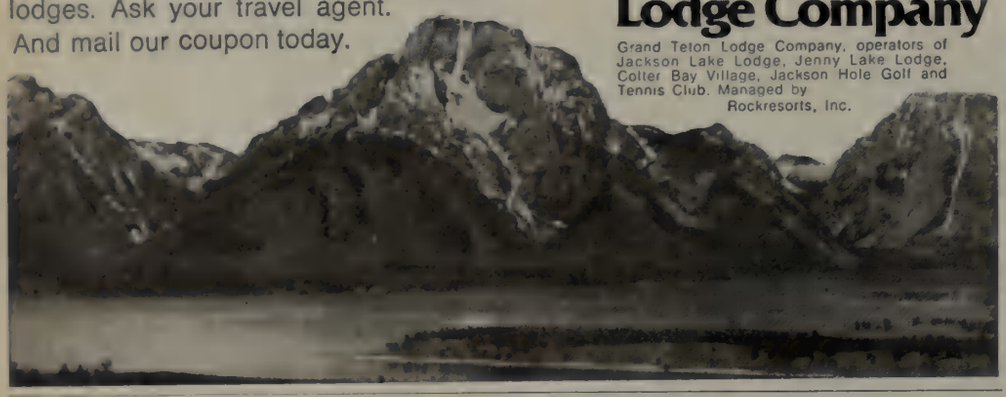

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MIKE THOELE

Retired cable spool *easily becomes a safe and versatile small-fry playhouse*

Playhouse is an old cable spool

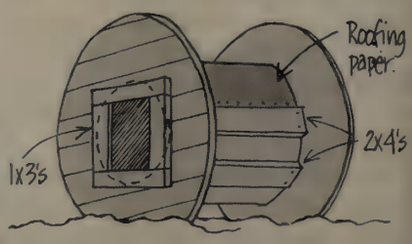
No one understands better than a child how to make do with found objects. These youngsters near Eugene, Oregon are lucky to have a father who is willing to go along with them. The result: a playhouse made from a cable spool.

It's small but cozy and versatile. With two or three old quilts it's fine for naps; dolls can live here, and it makes a good garage for toy trucks. Even the family dog can climb in.

Large cable spools are fairly easy to find in the Northwest, where so much cable and wire rope is used in logging operations. In other areas, power companies are a possible source.

To keep the spool from rolling, Mike Thoele set the rims about 6 inches into the ground. He covered the upper part of the spool's core with mineral-coated roofing paper to keep out the rain and provide a nonskid surface above the 2-by-4 steps he nailed on.

Mr. Thoele used a circular saw to cut out the entry. He recommends using a old, heavy-duty blade, since you may hit nails as you saw through the double thickness 1 by 6's of the spool's sides.



Exterior *needs only protective roofing paper, 2-by-4 steps, and 1 by 3's around entry*

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3:15p SF RS	8:11p NS TriStar
7:55p O	1:40a OS Thru
11:50p SJ NC	5:44a OS Thru
12:45a SF NC	5:41a NS
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8:30a SJ	2:59p OS Thru
10:35a SF RS	5:14p
3:15p SF RS	10:19p
7:55p O	3:39a Thru
9:20p SF NC	4:18a OS Thru*
11:50p SJ NC	8:05a TriStar
12:45a SF NC	8:05a TriStar
12:50a O NC	8:05a TriStar

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8:25a SF	5:00p OS Thru
8:30a SJ	5:00p
11:55a SF RS	7:06p NS TriStar
3:15p SF RS	11:41p OS Thru TriStar
10:00p SF NC	5:06a NS TriStar
11:50p SJ NC	9:16a
12:45a SF NC	9:16a OS Thru
12:50a O NC	9:16a

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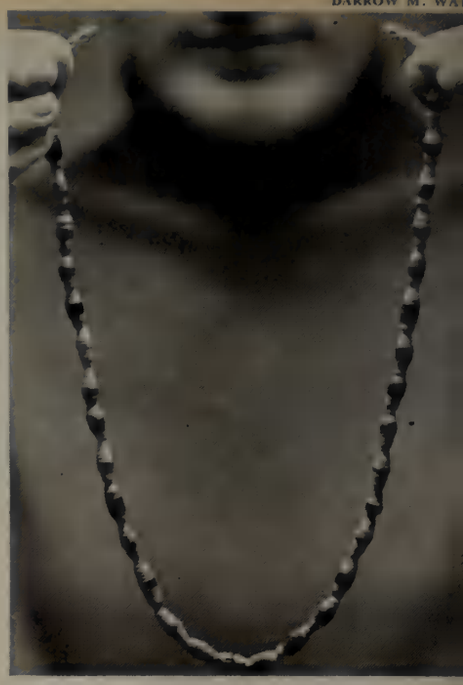
DARROW M. WA



String *of paper beads has a metal clasp for a more finished look*

Bands of color *from rolled paper strips create surprising richness*

Your necklace from paper beads

Simple paper beads, popular during t 1930s, are an interesting, easy, and expensive raw material to use for jewe making today. All it takes to make th are a few paper-and-paste ingredie and a rainy afternoon. They're a go project for a children's group.

You'll need several color pages fron good-quality magazine, a craft knife, scissors), a ruler, some toothpicks, wh glue, a needle and thread, spray shell and some nylon line. For a more phisticated look, you can finish the e with clasps (sold at crafts stores) intersperse your paper beads with sil glass, or wooden ones.

Before beginning your necklace, might experiment with colors by rol

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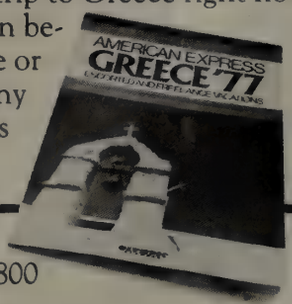

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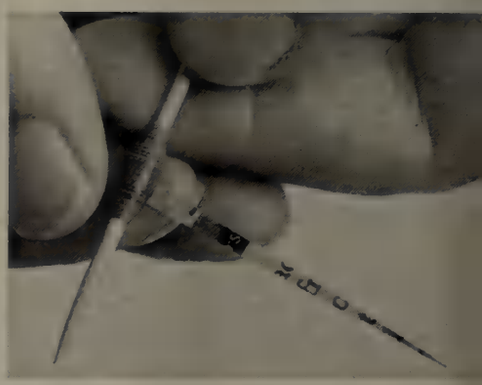
DARROW M. WATT

Mark and cut *magazine page into triangular strips. Spray shellac, applied later, will intensify color*



Wrap *paper triangle around toothpick, seal end with glue, remove bead from pick*

several beads from different pages. White borders on pages will create a white edge and center stripe in the beads. Paper should be at least 5 inches long; the longer and heavier the paper, the fatter the bead.

Along the top and bottom edges of the page, measure and mark off intervals of ½ to 1 inch; measurements must be consistent. Align ruler with marks and cut diagonally from mark to mark as shown in photograph above. (Children might draw lines with a pencil and cut with scissors.)

Wrap base of triangle around a toothpick, then roll strip firmly, centering of bead as triangle narrows. Dab white glue on point and press down. Pull bead off toothpick; the rolled paper will slide somewhat, so adjust shape as necessary. String beads loosely on thread, hang outdoors, and apply shellac to make them sturdy and shiny.

When dry (about 24 hours), string beads on nylon line and tie off. Hide cut end of line by threading an inch or two back through the beads.

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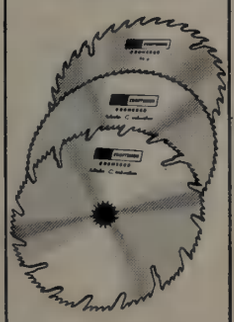

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Sunset's Kitchen Cabinet®

A busy cook's schedule will welcome this month's recipes. You can partially assemble several of these dishes ahead to minimize last-minute cooking duties.

For instance, simmer the shortribs the night before, then quickly rehea to serve. For a head start on the salad prepare and store the greens anc dressing separately then toss togethe at the table. And to speed preparatio of the quiche, make the pastry shel

Chile sauce and pickling spice lend a spicy piquancy to braised shortribs

Chile Sauce Shortribs

These succulent, meaty shortribs can be made ahead and reheated. Serve them with buttered noodles or rice.

- 2 to 3 tablespoons salad oil
- About 3 pounds lean beef shortribs, cut in 2 to 3-inch lengths and trimmed of excess surface fat
- 1 clove garlic, minced or pressed
- 1 large onion, chopped
- ¾ cup water
- ½ cup tomato-based chile sauce
- 2 tablespoons soy sauce
- 1 teaspoon mixed pickling spice
- Salt and pepper

Pour 2 tablespoons oil into a heavy 5-quart Dutch oven and place over medium heat. When oil is hot, add ribs a few at a time and cook, turnin frequently and adding oil if needed until well browned on all sides; remove from pan.

After all ribs are browned, return al meat to pan. Add garlic, onion, water chile sauce, soy sauce, and pickling spice (put in a teaball or tie in cheese cloth). Cover and simmer until mea is very tender when pierced, abou 2 hours. Discard pickling spice.

Skim off and discard any excess fa (or lift off solid fat if chilled, then reheat ribs in pan juices). Add salt and pepper to taste. Makes 4 servings.—*B. C., Long Beach, Calif.*

Serve this Italian green salad as an accompaniment to steak or hamburgers

Italian Antipasto Salad

Arrange antipasto ingredients on top of this green salad, then mix with Italian dressing at the table.

- 6 tablespoons salad oil
- 2 tablespoons wine vinegar
- 1 teaspoon crumbled dry basil
- ½ teaspoon *each* garlic salt and sugar
- ¼ teaspoon pepper
- ⅓ cup minced green onions
- 1 small head iceberg lettuce
- 1 cup diced mozzarella cheese
- 1 can (2¼ oz.) sliced olives, drained
- ½ cup thinly sliced pepperoni
- 2 small tomatoes, cut in wedges
- 1 large ripe avocado

In a jar or small bowl, combine the oil, vinegar, basil, garlic salt, sugar, pepper, and green onions; shake o stir to blend thoroughly. Cover anc chill if made ahead.

Wash and dry lettuce leaves; tea enough leaves into bite-sized piece to make 2 quarts. Place lettuce in large shallow salad bowl. Sprinkl with cheese and olives. Arrange pep peroni and tomato wedges on top Cover and chill if made ahead.

Before serving, peel, pit and slice avc cado; lay slices on top of salad. At th table pour dressing over salad an toss together until all pieces ar coated. Makes 6 servings.—*D. W Salt Lake City.*

Make this tuna and sprout custard pie for a luncheon or light supper entrée

Onion and Sprout Quiche

Bean sprouts give this cheese-onion quiche a pleasant crunchy texture.

- 9-inch baked pastry shell
- 3 tablespoons butter or margarine
- 2 large onions, thinly sliced
- ¾ cup finely chopped celery
- 1½ cups chopped fresh bean sprouts
- ½ teaspoon thyme leaves
- 2 cups shredded sharp Cheddar cheese
- 1 can (about 7 oz.) tuna, drained
- 4 eggs
- ½ cup milk
- 2 tablespoons all-purpose flour
- 1 teaspoon seasoned salt
- ¼ teaspoon pepper

Using your own recipe or a pie-crust mix, prepare and bake the pastry shell. In a wide frying pan, melt bu ter over medium-high heat. Ac onion and celery; cook, stirring, un onion is very soft. Remove from he and stir in bean sprouts and thym Sprinkle half of the cheese over cru layer half of the onion mixture ov cheese, and top with all of the tun then cover with the remaining oni and cheese.

Beat eggs with milk, flour, salt a pepper; pour into pie. Bake in a 35 oven until custard appears firm in ce ter, 40 to 45 minutes. Let stand minutes before serving. Makes 6 se ings.—*L. O., Novato, Calif.*

advance, then fill and bake it ortly before dinner.

) share your favorite step-saving cipes, send them to *Sunset Maga-ne,* Menlo Park, Calif. 94025. We y $10 for each recipe published.

Here are time-savers... make-ahead shortribs, lemon-mint meatballs

mon-Mint Lamb Meatballs

aching makes these mint-flavored nb meatballs moist and tender.

- ⅓ cup finely chopped parsley
- 1½ cups thinly sliced green onions, including tops
- 2 tablespoons salad oil
- 1 can (about 14 oz.) regular-strength chicken broth
- ⅓ cup lemon juice
- Meatball mixture (recipe follows)
- 1 tablespoon *each* cornstarch and water

a 12-inch frying pan or 5-quart n, sauté parsley and green onion in until limp. Add broth and lemon ce; bring to simmering.

anwhile, form meatball mixture o 1-inch balls; drop into the simmering sauce; gently stir occasionally. After all are added, continue to simmer, uncovered, stirring occasionally, until meatballs are no longer pink inside, about 15 minutes.

With a slotted spoon transfer meatballs to serving dish. Skim off fat. Mix cornstarch and water; add to pan juices, and cook, stirring until thickened. Pour over meat. Makes 6 servings.—*P. L., La Mesa, Calif.*

Meatball mixture. Mix together 2 pounds lean ground lamb, 2 eggs, ¼ cup all-purpose flour, 1 tablespoon crumbled dry mint leaves, 1½ teaspoons salt, and 1 teaspoon pepper.

Offer plenty of hot cooked rice with these refreshing lemon-mint meatballs

tato Yogurt Soup

gurt and dill add a fresh tanginess this potato and vegetable chowder.

- 6 slices bacon, cut in ½-inch strips
- 1 *each* small onion and green pepper, diced
- 3 cups water
- 1 package (10 oz.) frozen green beans or mixed vegetables, thawed
- ½ teaspoon dill weed
- 4 chicken bouillon cubes
- 3 medium-sized white new potatoes
- 1 cup milk
- 2 tablespoons cornstarch
- 1 cup unflavored yogurt
- Garlic salt and pepper

a 5-quart Dutch oven, cook the con over medium heat, stirring frequently, until crisp. Lift out bacon; set aside. Discard all but 3 tablespoons of the drippings.

Add onion and green pepper; cook, stirring, until soft. Add water, beans, dill, and bouillon cubes. Peel potatoes, if desired, and dice; add to pan. Simmer, covered, until potatoes are tender when pierced, about 25 minutes. Add milk.

Stir cornstarch into yogurt, then stir into soup. Cook, stirring, until hot and thick. Add garlic salt and pepper to taste. Garnish with reserved bacon. Makes 6 to 8 servings.—*I. G., Salinas, Calif.*

Frozen beans or mixed vegetables add color and texture to this potato soup

ffee-Butterscotch Poundcake

tterscotch and coffee give this ndcake an intriguing, rich flavor.

- 1 package (6 oz.) butterscotch pieces
- 2 tablespoons instant coffee
- ¼ cup hot water
- 1 cup (½ lb.) butter or margarine
- 1½ cups granulated sugar
- 4 eggs
- 3 cups all-purpose flour, unsifted
- ½ teaspoon soda
- ¼ teaspoon salt
- ¾ cup buttermilk
- Powdered sugar

mbine butterscotch, coffee, and ter in the top of a double boiler l place over simmering water; k, stirring until melted.

In a large mixing bowl, cream together butter and granulated sugar. Beat in eggs and butterscotch mixture. Mix flour, soda, and salt; add to creamed mixture alternately with buttermilk; beat until blended. Pour into a greased and flour-dusted 10-inch fluted tube-cake pan. Bake in a 350° oven 55 to 60 minutes or until a wooden pick inserted in thickest part comes out clean. Cool in pan 10 minutes, then turn out onto a wire rack to cool thoroughly.

Sprinkle with powdered sugar before serving. Makes 12 servings.—*A. V. G., Kirkland, Wash.* □

A sprinkling of powdered sugar is all that is needed to garnish this dessert

Make egg wrappers *in a big frying pan and cut into quarters; place a tablespoon of fish filling on each wedge, and roll and tuck around filling. After steam-cooking rolls, pour over light green-onion sauce*

DARROW M. WATT

These *Szechwan** fish rolls are simply delicious

*The Chinese province, pronounced cetch-wan, sidge-wan, soo-zhan, sai-jwan, citch-wan—we could find little agreement

Mellow-flavored *steamed fish rolls make a protein-rich, low-calorie dish that especially complements Chinese meals*

Delicate egg wrappers and a mild, ginger-flavored fillet-of-sole filling make the Szechwan-style fish rolls you see here. Accompanied by a sauce flavored with green onions and sesame oil (sold wherever you buy Oriental products), they make a delicious and unusual first course or a light luncheon entrée.

You can make all three parts—wrappers, filling, and sauce—ahead of time, then simply heat the sauce and steam the rolls for 10 minutes. To cook them you'll need a bamboo or other stacking steamer unit, or use a rack set into a deep kettle or a frying pan with a domed lid. If you have only one rack in your steamer unit, cook half the filled rolls at a time, keeping the first steamed batch in a warm oven.

Szechwan Fish Rolls

Egg wrappers (recipe follows)
1 pound boneless sole fillets
1 green onion, finely chopped
1 tablespoon finely minced fresh ginger
⅛ teaspoon white pepper
½ teaspoon salt
2 tablespoons salad oil
1 tablespoon *each* sesame oil, dry Sherry, and cornstarch
1 egg, separated
Green onion sauce (recipe follows)

If made ahead and refrigerated, let quarter-folded wrappers reach room temperature (they tear when cold). Carefully unfold and cut each along fold lines to make 4 wedges.

Cut fish into ¼ by 1-inch pieces; gently combine in a small bowl with onion, ginger, pepper, salt, salad oil, sesame oil, Sherry, and cornstarch. Beat egg white and blend into fish mixture; cover and chill while you make the sauce.

To assemble, lay egg wedges, lighter side up, on a board. Place 1 tablespoon of filling in each center, dot corners with lightly beaten egg yolk, then roll and tuck wrappers around filling as shown above. Arrange rolls in two lightly greased 9-inch pie pans. Cover and chill if made ahead.

To cook, stack pans on two racks of a bamboo or other steamer unit over boiling water; drape waxed paper over tops of rolls if using anything but a bamboo steamer. Cover steamer and cook 10 minutes. (If cooking half the rolls at a time, cover first batch with foil and keep in a warm oven.)

While the rolls steam, reheat the sauce. Arrange rolls on a large platter and pour over the sauce. Makes 28 rolls, enough to serve 4 as an entrée, 6 to 8 as a first course.—*S. K., Saratoga, Calif.*

Egg wrappers. Whirl 7 eggs, 1 tablespoon *each* sesame oil and water, ¼ tea spoon salt, ⅛ teaspoon white peppe and 1 teaspoon cornstarch in a blende until smooth.

To cook wrappers, heat a 12-inch fryin pan over medium heat; add about ½ tea spoon butter, swirling to coat pan bo tom. Pour in ¼ cup of the egg mixtur tilting pan to coat bottom evenly. L cook about 20 seconds, or until top dry but bottom has not quite started t brown. Using a spatula, lift wrapper one edge and roll onto a platter. Repea using ½ teaspoon butter and about ¼ cup batter for each wrapper; you shou have 7 wrappers.

Unroll warm wrappers and fold ea into quarters. Stack, cover with plast film, and refrigerate if made ahead.

Green onion sauce. In a small pan, cor bine 1½ cups regular-strength chick broth, 1½ tablespoons *each* dry Sher and sesame oil, 1 tablespoon cornstar mixed with 1 tablespoon water, dash white pepper, salt to taste. Cook, stirri over high heat, until it boils and thic ens; stir in ½ cup sliced green onions.

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STUFFED TOMATOES À LA MAKE·A·BETTER BURGER

8 tomatoes
1 package Lipton® Make·a·Better Burger,® Any Flavor
1¼ cups warm water
1 pound ground beef
1 cup soft bread crumbs
¼ cup chopped parsley
½ cup parmesan cheese

Cut top off tomatoes; scoop out pulp and reserve 1½ cups. In large bowl, combine Make·a·Better Burger with water. Add beef, crumbs, and parsley; mix thoroughly. In skillet, brown mixture. Add pulp; cook 10 minutes. Stir in cheese; stuff tomatoes. In baking pan, bake at 375° for 20 minutes or until tender. Makes 8 servings.

SWEET'N SOUR MEATBALLS MAKE·A·BETTER BURGER

1 package Lipton® Make·a·Better Burger,® Mildly Seasoned or Onion Flavor
1¼ cups warm water
1 pound ground beef
1 cup beef broth
¼ cup vinegar
1 teaspoon soy sauce
1 can (15½ oz.) pineapple chunks, drained (reserve liquid)
¼ cup brown sugar
2 tablespoons cornstarch
1 green pepper, cut into chunks

In large bowl, combine Make·a·Better Burger with water. Add beef; mix thoroughly. Shape into meatballs. In skillet, cook meatballs; add broth, vinegar, soy sauce, and reserved liquid blended with brown sugar and cornstarch. Stir until sauce is slightly thickened. Add pineapple and green pepper. Simmer covered 10 minutes. Makes about 8 servings.

FREE recipe booklet. Send your name and address to: Thomas J. Lipton, Inc., MABB 7, P.O. Box 1675, Englewood Cliffs, N.J. 07632.

DARROW M. WATT

Spread *butter-cream filling on one cooky, top with another*

These little cookies are sandwiches

Chocolate fanciers should delight in these homemade cooky sandwiches filled with vanilla, peppermint, or peanut butter cream. The neat-to-eat treats are ideal for lunch boxes or as afternoon snacks along with a glass of milk.

Chocolate Cream Cushions

6 tablespoons butter or margarine, at room temperature
1 cup sugar
1 egg
1 teaspoon vanilla
2 cups all-purpose flour, unsifted
1¼ teaspoons soda
¼ teaspoon salt
5 tablespoons cocoa
1 cup milk
Butter cream (recipes follow)

Beat butter and sugar until well blended; add egg and vanilla, and beat until creamy. Combine flour, soda, salt, and cocoa; add to creamed mixture alternately with milk, beating just until smooth. Drop dough by rounded teaspoonfuls about 2 inches apart on greased baking sheets. Bake in a 400° oven for 10 minutes or until firm when touched. Transfer to wire racks to cool.

Spread bottoms of half the cookies with your choice of butter cream; top with remaining cookies, bottom sides against filling. Makes about 2½ dozen filled cookies.—*R. G., Phoenix.*

Vanilla or peppermint butter cream. Combine ¾ cup soft butter or margarine, ¾ cup unsifted powdered sugar, 6 tablespoons marshmallow creme, and 1 teaspoon vanilla or peppermint extract; beat until smooth.

Peanut butter cream. Follow direction for vanilla butter cream but substitute ½ cup peanut butter for ½ cup of the butter, and omit extract.

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Elegant Strawberry Mold

1 envelope unflavored gelatin
1 cup cold water
[illegible] KRAFT Imitation Mayonnaise
2 cup dairy sour cream or yogurt
2 3 oz. pkgs strawberry flavored gelatin
2 cups boiling water
3/4 cup cold water
3/4 cup rosé wine
1 pint strawberries, sliced

Soften gelatin in cold water; stir over low heat until dissolved. Combine imitation mayonnaise and sour cream. Gradually add gelatin to salad dressing mixture, mixing until well blended. Pour into 12 cup mold. Chill until almost set. Soften strawberry flavored gelatin in boiling water, add cold water and rosé wine. Chill until partially set; fold in strawberries. Pour over molded layer. Chill until firm. Unmold; surround with lettuce and garnish with strawberry slices and imitation mayonnaise if desired. 6 to 8 servings.

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Hormel

Chinese greens . . . freezing or pickling

f your crop of Chinese greens produces oo much to eat fresh, you might preerve some to use later.

'ou can freeze any of the varieties decribed on pages 102 and 103. Later ou can cook them, using the same recpes as for fresh greens. The frozen reens will be less crisp and pungent han the fresh. With the broadleaf musard you can make pickles.

Iow to freeze Chinese greens

'repare and cut greens as directed on age 103.

'o blanch vegetables, place no more han 3 cups at a time of all stems or all eaves in a wire basket or metal colnder. Immerse in a large kettle of rapdly boiling water. When boiling resumes, over and start counting time. Allow 2½ inutes for stem pieces (for Chinese roccoli and yao choy, allow 4 minutes) nd 1½ minutes for all leaves. Plunge in ce water.

Vhen cool, drain thoroughly. Pack in reezer bags or containers. To cook, folow recipes on pages 102 and 103.

Broadleaf Mustard Pickles

Separate leaves from central head of 4 arge bunches (about 2 lbs. *each*) broadeaf mustard; wash. Trim off root ends. Cut off the leafy portions of each rib; eserve leaves for soup, or freeze. Cut eavy ribs into 1-inch squares to make ½ quarts.

n a 6-quart or larger kettle, combine ½ cups *each* sugar and white vinegar nd 1 teaspoon salt. Bring to a boil; add alf of the vegetables. Bring back to simmering; simmer, uncovered, stirring, just ntil vegetable turns yellowish green, bout 2 minutes.

Vith a slotted spoon, ladle vegetables nto clean hot pint or quart canning jars, acking vegetables firmly. Fill each to ithin ½ inch of the rim with the hot ickling liquid. Run a spatula down inde jar sides. Scald lids and bands in oiling water. Wipe jar rims, put on lids, nd tighten bands.

Reheat pickling liquid to boiling; add reaining vegetables and repeat.

ut all jars on a rack in a canning kettle lf full of hot water. Fill with enough t water to cover jars by at least 1 inch. ing water to simmering (180°) and ocess 15 minutes for pints, 20 minutes r quarts. Cool thoroughly. Check for good seal. Makes 2 quarts.—*H. L., radise, Calif.* □

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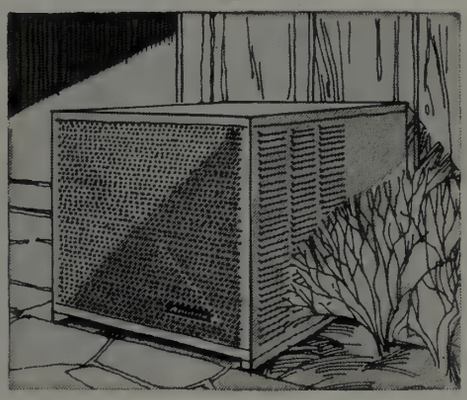

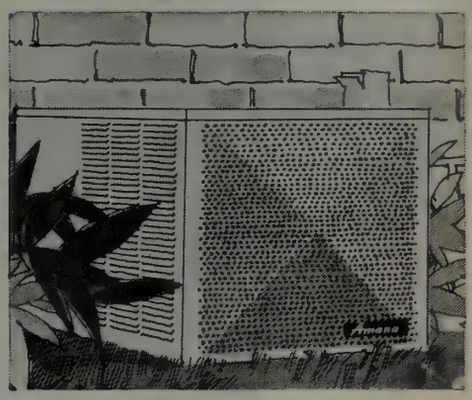

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DARROW M. W

Flaming cherry sauce, *kept hot in chafing dish, is spooned over roasted Rock Cornish game hens at the table*

One to a hungry customer

Half a hen to the rest of us. Four delicious ways to go

Rock Cornish game hens are an Ame can invention of fairly recent origin, result of crossbreeding Cornish and P mouth Rock fowls.

Considered a luxury food a few ye ago, these versatile little birds are n often available at bargain prices. Tl still lend themselves to elegant preser tions, but also make easy-to-prep family meals.

Usually 20 to 24 ounces, one hen p vides an ample single portion, or servings scaled to today's lighter me With poultry shears, or kitchen sciss these game hens are easily snipped half either before or after cooking— cut along one side of the backbone through the center of the breast.

Game Hens with Flaming Cherry Sauce

2 Rock Cornish game hens (20 to 24 oz. *each*)
Seasoned salt and pepper
2 tablespoons butter or margarine, melted
½ teaspoon *each* seasoned salt, ground ginger, and paprika
Cherry sauce (recipe follows)
Orange wedges for garnish
2 tablespoons brandy (optional)

Thaw hens as directed on the package (set giblets aside for other uses). Rinse well and pat dry. Sprinkle inside cavities with seasoned salt and pepper. Place hens with breast sides up, slightly apart, in a roasting pan.

Combine butter with the ½ teaspoon seasoned salt, ginger, and paprika; brush over hens. Bake hens, uncovered, in a 350° oven until leg joints move easily, about 1 hour; during the last half hour, baste birds several times with pan drippings. Meanwhile, prepare cherry sauce; keep warm over low heat or in a chafing dish.

When hens are roasted, discard excess fat from pan juices and stir juices into the cherry sauce. Arrange the hens on a serving plate and garnish with orange wedges; keep warm. To flame birds, warm brandy in a small container; ignite and pour, flaming, into the sauce. While still flaming, spoon sauce over birds. Makes 2 to 4 servings.

Cherry sauce. Drain 1 small can (about 8 oz.) pitted dark sweet cherries, reserving ⅓ cup of the syrup. In a pan, combine the ⅓ cup syrup with ⅔ cup water, 1 chicken bouillon cube, 1 small onion (cut in wedges), 8 whole cloves, and ¼ teaspoon ground cinnamon. Bring to boiling, stirring, then reduce heat and simmer for 10 minutes; strain, discarding cloves and onion. Return sauce to pan. Blend 1 tablespoon *each* cornstarch and water until smooth; stir into sauce and cook, stirring, until it boils and thickens. Stir in the cherries, ¼ teaspoon grated lemon peel, and 1 tablespoon lemon juice. Then add salt and pepper to taste.

Game Hens with Papaya and Curry Pilaf

2 Rock Cornish game hens (20 to 24 oz. *each*)
Salt and pepper
2 tablespoons butter or margarine, melted
1 teaspoon curry powder
Curry pilaf (recipe follows)
3 tablespoons Major Grey's chutney, finely chopped
2 tablespoons lime juice
1 large (or 2 small) papaya
Lime wedges

Thaw hens as directed on package (set giblets aside for other uses). Rinse hens and pat dry. Sprinkle inside cavities with salt and pepper. Place hens with breast sides up, slightly apart, in a roasting pan. Combine butter and curry; brush over hens, using it all. Roast, uncovered, in a 350° oven until leg joints move easily, about 1 hour. Meanwhile, prepare pilaf and set into oven alongside hens.

After 30 minutes' roasting, remove hens from oven, stir chutney and lime juice into pan drippings, and baste hens with mixture. Return to oven and continue baking, basting hens with drippings 2 or 3 times.

Remove hens from pan and arrange on a warm serving plate; keep warm. Peel papaya, cut in half, and discard seeds. Slice about ½ inch thick. Turn papaya in the pan drippings, then return to oven until papaya is heated through, about 5 minutes. Remove papaya from oven and arrange around hens; spoon pan juices over top. Garnish with lime and serve with curry pilaf. Makes 2 to 4 servings.

Curry pilaf. In a frying pan, melt 2 tablespoons butter or margarine. Stir in 1 small onion, chopped; 1 clove garlic, minced or pressed; and 1 teaspoon curry powder. Cook, stirring over medium heat, for about 2 minutes. Add 1 cup long-grain rice; cook, stirring, for about 5 minutes. Add 2¼ cups regular-strength chicken broth (or 3 chicken bouillon cubes mixed with 2¼ cups water), and ½ teaspoon salt. Transfer to a 1½ to 2-quart baking dish. Cover and bake in a 350°oven for 30 to 45 minutes, or until rice is tender.

Game Hens with Pilaf and Vegetables

2 or 3 Rock Cornish game hens (20 to 24 oz. *each*)
Seasoned salt and pepper
3 tablespoons olive oil or salad oil
1 medium-sized onion, finely chopped
1 clove garlic, minced or pressed
1 cup bulgur wheat
½ teaspoon *each* salt and oregano leaves
¼ teaspoon pepper
2 cups regular-strength chicken broth
1 package (10 oz.) frozen tiny carrots, thawed
Chopped parsley for garnish

Thaw hens as directed on the package (set giblets aside for other uses). Rinse hens well and pat dry. Sprinkle inside cavities with seasoned salt and pepper. In a 5 or 6-quart Dutch oven, heat the oil over medium heat; put in birds and turn as needed to brown evenly all over. Remove birds as they are browned and set aside.

To the pan drippings add onion, garlic, and bulgur; cook, stirring until onion is limp, about 5 minutes. Add the salt, oregano, pepper, and broth; bring to a boil. Arrange game hens on top of bulgur mixture, cover tightly, and bake in a 350° oven for about 1 hour, or until leg joints move easily. About 5 minutes before removing from oven, distribute thawed carrots in pan around hens.

Remove from oven and allow to stand, covered, for about 10 minutes for juices to be absorbed. Lift out hens and arrange on serving plate. Gently stir carrots into bulgur and serve with hens. Garnish with parsley. Makes 2 to 4 servings.

Snip *game hens in half to make four modest servings. Serve pilaf and papaya along with these curry-spiced birds*

Baked Stuffed Cornish Hens

Stuffing. Crumble ⅓ pound bulk pork sausage into a frying pan; cook over medium heat, stirring, until it starts to brown. Remove all but about 1 tablespoon pan drippings. From ¼ pound medium-sized mushrooms, set aside 8 and remove their stems. Chop stems and remaining mushrooms; add to pan with ½ cup chopped onion and 2 tablespoons chopped almonds. Cook until onion is limp; remove from heat.

Break about 4 slices firm white bread into chunks and whirl in blender to make 2 cups fresh crumbs; add to mixture in pan with ¾ teaspoon poultry seasoning (or ¼ teaspoon *each* sage, marjoram, and thyme leaves) and 2 tablespoons white wine or chicken broth; set aside.

Hens. Thaw 2 Rock Cornish game hens (20 to 24 oz. *each*) as directed on package (set giblets aside for other uses). With poultry shears, cut hens in half, lengthwise. Rinse and pat dry. Press ¼ of the stuffing mixture onto cut side of each half-hen; turn over with a wide spatula; arrange, skin side up, in a greased 9 by 13-inch baking pan. Blend 2 tablespoons *each* melted butter and lemon juice; brush over skin of hens.

Sprinkle hens lightly with salt and paprika. Bake, uncovered, in a 350° oven until leg joints move easily, about 1 hour; after the first 30 minutes, brush several times with pan drippings. Just before serving, melt 1 tablespoon butter or margarine in a small pan and turn the reserved mushroom caps in butter until heated through. Serve 2 on top of each half-hen. Makes 4 servings. □

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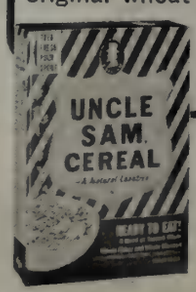

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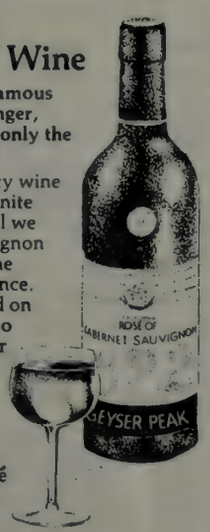

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DARROW M. WAT

Frozen wine *with sprig of mint is a welcome mid-dinner break*

It's refreshment in mid-dinner

Glistening wine sherbet, offered in sma crystal glasses with or after the me course "to renew the palate," is a trad tion in some European restaurants. Yo can easily adopt this refreshing custo when you entertain at home.

The sherbet can be made in two way The basic version has an icy sweet-ta flavor. Or you can fold beaten egg whi into the partially frozen wine mixtu for a creamier, more mellow sherbet.

Made with rosé, the sherbets go we with grilled steak, roast beef or pork, leg of lamb. Made with white wine, the complement poultry and veal.

Icy Wine Sherbet

- 1 envelope unflavored gelatin
- 1 bottle (⅘ quart) rosé wine or dry white table wine
- 1 cup sugar
- 3 tablespoons lemon juice

Sprinkle gelatin in a 2 to 3-quart pa add about ¼ cup of the wine and stand 5 minutes. Stir in remaining win sugar, and lemon juice. Place ov medium heat until gelatin and sugar a completely dissolved. Pour into a 9-in square baking pan; cool, cover, a freeze until mushy, 2 to 3 hours.

Spoon mixture into a bowl; beat un airy and well blended. Return to pa cover, and freeze until firm. To serv spoon into small glasses. Serves 8 to 1 —*J. D., San Francisco.*

Creamy Wine Sherbet

Follow directions for icy wine sherb freeze until mushy. Before beating wi mixture, beat 2 egg whites until foam gradually add ¼ cup additional sug and beat until stiff peaks form. The beat wine mixture and fold in egg white and finish as directed above.

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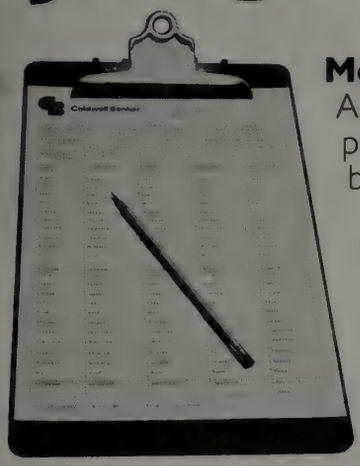

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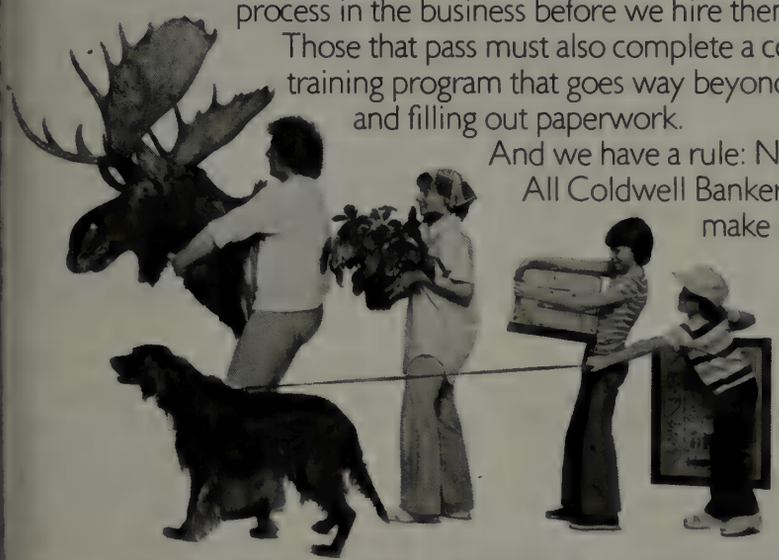

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Her all-day cooky *is chock-full of good things—rolled oats, whole wheat, raisins, and nuts*

DARROW M. WAT

The cooky that's almost bigger than she is. Here are four neat ones

Oversized cookies, often best sellers at fund-raising events, are easy to make at home. Here are four flavors popular with all ages.

Each recipe makes about a dozen cookies. Making several dozen with a standard-sized mixer is easy if you mix one batch at a time. You might mix up successive batches, then start baking. After the cookies cool, you can seal each in clear plastic.

Choose baking pans at least 2 inches shorter and narrower than your oven. Two cookies will fit on a 12 by 15-inch pan, three on a 14 by 17-inch pan. To bake two pans at a time, place them in the top and bottom thirds of the oven, staggering the pans slightly; in smaller ovens you may need to switch pan positions halfway through baking to ensure even browning.

Use sugar-coated *pie pan to press cooky dough. These cookies spread to 7 inches after they're baked*

To shape cookies, spoon dough into a ½-cup measure, level off, and turn out onto a greased cooky sheet, spacing cookies at least 6 inches apart and 2½ inches from pan edge. Lightly grease the bottom of a pie pan, dip into sugar, and use to flatten each cooky into a 5½-inch circle. If necessary, even out the thickness with your fingers.

Big Oatmeal Chocolate-chip Cookies

Beat together 1 cup butter or margarine and 1½ cups brown sugar (firmly packed) until creamy. Beat in 2 eggs and 1 teaspoon vanilla. Add 1½ cups whole wheat or all-purpose flour (unsifted), 2⅓ cups rolled oats (regular or quick cooking), 2 teaspoons soda, and 1 teaspoon salt; mix until well blended. Stir in 1 large package (12 oz.) semisweet chocolate or butterscotch pieces and 1½ cups chopped nuts. Shape cookies as directed above.

Bake in a 350° oven about 15 minutes or until edges brown lightly. Cool on pans about 5 minutes; transfer to racks to cool thoroughly. Makes 10 or 11.

Big Oatmeal Raisin Cookies

Follow recipe for Big Oatmeal Chocolate-chip Cookies, except add 1 teaspoon ground cinnamon and ½ teaspoon ground nutmeg with flour. Omit chocolate pieces and add 1½ cups raisins.

Peanut Butter Platters

Beat 1 cup *each* butter or margarine and chunk-style peanut butter with 2 cups brown sugar (firmly packed) until creamy. Beat in 2 eggs. Add 2½ cup all-purpose flour (unsifted), 1½ tea spoons soda, and 1 teaspoon bakin powder; mix until well blended. Stir in cup chopped salted peanuts (optional).

Shape cookies as directed at left. If de sired, lightly score top with fork tines o press with a wire cake rack to form crisscross pattern.

Bake in a 350° oven about 14 minute or until edges brown lightly. Cool o pans about 5 minutes; transfer to rack to cool thoroughly. Makes 10 or 11.

Giant Graham Crisps

Beat together 2 cups *each* butter or mar garine and sugar until creamy. Beat in eggs and 2 teaspoons vanilla or mapl flavoring. Add 2¼ cups graham cracke crumbs (about 30 squares), and 2 cup all-purpose flour (unsifted); mix unt well blended. Cover and chill until firn at least 1 hour. Shape cookies as directe previously, except use ⅓ cup dougl flatten into 4½-inch circles, and kee chilled until they go into the oven.

Bake in a 325° oven about 18 minut or until edges brown. Cool on pans abou 1 to 2 minutes, then transfer to racks t cool thoroughly. Makes 14.—*J. S Moraga, Calif.*

To seal cookies in plastic, line a cook sheet with paper towels; put in a 32 oven. Wrap each cooky firmly in a 11½ by 15-inch piece of heavy, cle plastic film. Without removing pan fro oven, place cookies slightly apart on th lined pan; heat about 2 minutes or ju until plastic shrinks tightly over cook Remove and cool; store at room ter perature up to 1 week. Freeze for long storage.

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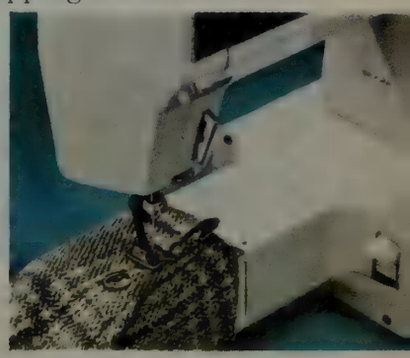

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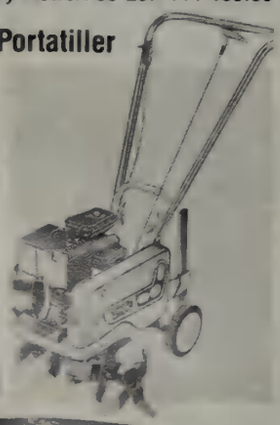

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DARROW M. WATT

Glossy pork roast, *is surrounded by sauerkraut and caraway biscuits. Pass dark, rich gravy and applesauce to eat with individual servings*

Pork roast with caraway biscuits, sauerkraut, and *black* gravy

This winter feast has its roots in Bohemia, formerly a province of western Czechoslovakia. It satisfies, at the same time, the heartiest and the most discriminating appetites. The focal point is a richly browned succulent pork roast with robust, almost black gravy.

Contrast comes from the mild butter-sautéed sauerkraut served on the side. Applesauce (homemade or canned) and freshly baked biscuits that you adapt from a mix are easy-to-handle accompaniments.

To achieve the deeply colored pork and gravy, you cook the meat in a very heavy roasting pan—preferably cast iron or heavy aluminum—so the drippings will caramelize somewhat into black bits that are essential to the gravy; do not use a pan with a fluorocarbon finish. Then the meat roasts in the oven at a slightly higher than normal roasting temperature—350° instead of 325°.

Bohemian-style Pork Roast with Black Gravy

- 4 to 4½-pound pork roast, loin or rib end
- 1 clove garlic, halved
- About ¼ teaspoon pepper
- 1 teaspoon caraway seed
- 2 cups hot water
- 3 beef bouillon cubes
- 3 tablespoons cornstarch blended with 3 tablespoons water
- ½ teaspoon bottled brown gravy sauce
- Salt

Place roast in a heavy roasting pan; rub flesh with cut garlic clove, then drop garlic into pan. Sprinkle meat with ¼ teaspoon pepper and caraway seed. Roast, uncovered, on bottom rack in a 350° oven for 2 to 2½ hours, or until a meat thermometer inserted into thickest portion, not touching bone, registers 170°. Baste roast with pan drippings several times. Remove pork to a serving platter; keep warm.

Discard garlic and all but about 2 tablespoons fat from pan drippings; add water and bouillon cubes to drippings and bring to a boil, scraping up all black bits from bottom of pan. Stir in cornstarch mixture and brown gravy sauce and cook, stirring, until thickened. Season to taste with salt and pepper. Pass gravy at the table. Makes 6 to 8 servings.

Butter-sautéed Sauerkraut

Drain 1 large can (27 oz.) sauerkraut, rinse well, and drain again. Melt 3 tablespoons butter or margarine in a frying pan over medium heat; add 1 small onion, chopped, and sauté until golden. Stir in 1 tablespoon all-purpose flour and cook until bubbly. Add the well-drained sauerkraut and cook, stirring often, until hot throughout. Cover and keep warm over low heat 10 to 15 minutes, if done ahead. Makes about 6 servings.

Caraway Biscuits

Prepare 2 cups biscuit mix (baking mix) according to package directions; stir in 1 tablespoon finely chopped parsley and 1 teaspoon caraway seed. Drop dough in 12 equal portions onto a greased baking sheet. Bake in a 375° oven for 18 minutes or until golden. Makes 12 biscuits.

Steak marinated with Wish-Bone® Italian Dressing. For a delicious cut above the usual rare, medium or well done.

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STEAK ORIENTALE

1 bottle (8 oz.) Wish-Bone Italian Dressing
¼ cup soy sauce
2 tablespoons brown sugar
2 to 2½ lb. steak (your favorite cut)
1 green pepper, cut into chunks
1 onion, sliced

In large shallow baking dish, combine Wish-Bone Italian Dressing, soy sauce, and brown sugar; add steak, green pepper, and onion. Cover and marinate in refrigerator 4 hours or overnight, turning occasionally. Broil steak, turning and basting frequently with remaining marinade, until done. During the last 20 minutes of cooking, add vegetables. Makes about 8 servings.

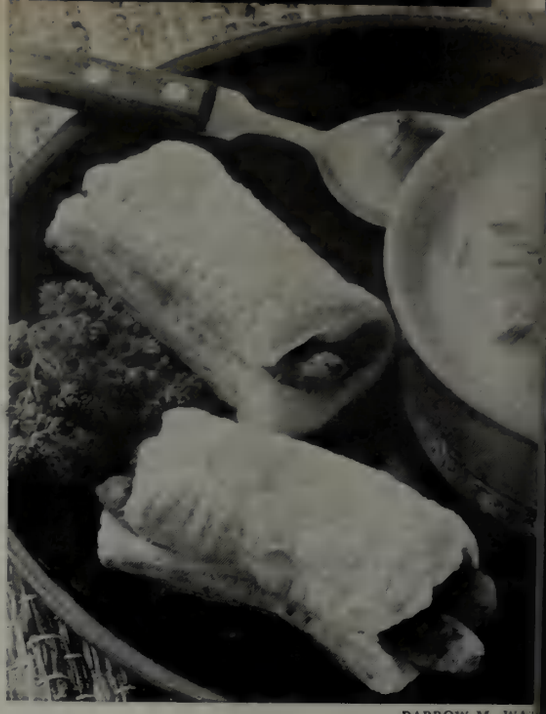
Variations:

STEAK PICCANTE. Use Wish-Bone Italian Dressing combined with ½ cup chili sauce; marinate steak with 2 sliced onions.

STEAK VINO. Use Wish-Bone Italian Dressing combined with ½ cup red wine and 2 teaspoons thyme; marinate with ½ lb. fresh mushrooms and 1 sliced onion.

Wish-Bone Italian. The flavor maker.

A thawed patty shell, *rolled flat and cut in half, makes a pastry wrap to bake around cooked sausages. Serve these flaky broodjes for lunch or a hot snack*



DARROW M. WA

Dutch treat . . . sausages baked in a pastry shell

Dutch pastry shops that specialize in te cakes and other sweets often sell flak pastry snacks called *broodjes* (*bro* ches). Stuffed with pork sausage or creamy almond filling, these sweet ar savory treats bear little resemblance the white yeast buns the Dutch also ca broodjes and use for sandwiches.

Thinly rolled puff pastry, filled ar baked, comes out of the oven as puf little pillows that are crisp to bite. Th sausage puffs are generally served h from the oven; those with almond fillin are sold at room temperature for sho pers to munch or carry home to eat.

To quickly duplicate these pastry broo jes, use frozen patty shells. Offer t sausage puffs with soup or a crisp sal for lunch; serve the almond-filled ki for dessert or a between-meal snack.

Dutch Pastry Snacks *(Saucijzebrood* or *Amandelbroodjes)*

Thaw 1 package (10 oz.) frozen pa shells. Roll each out on a lightly flour board into a rectangle about 3½ by inches; then cut in half. Top each h with 1 cooked pork sausage link (sp lengthwise), or 1 scant tablespoon mond filling (recipe follows). For sausa puffs, fold pastry over filling, moist edges with water, and press togeth with a fork to seal along the leng while leaving link ends exposed. Encl almond filling completely by pressing edges together.

Place on ungreased baking sheets. Pr tops with a fork and bake in a 4 oven for 25 minutes or until ric browned. Serve hot or at room temp ature; or cool, wrap airtight, and free To reheat, bake frozen pastries unc ered in a 400° oven for about 8 minu or until hot through. Makes 1 dozen

Almond filling. To fill 12 puffs, beat gether 1 package (3 oz.) room-tempe ture cream cheese and 3 ounces (6 tal spoons) almond paste until blended.

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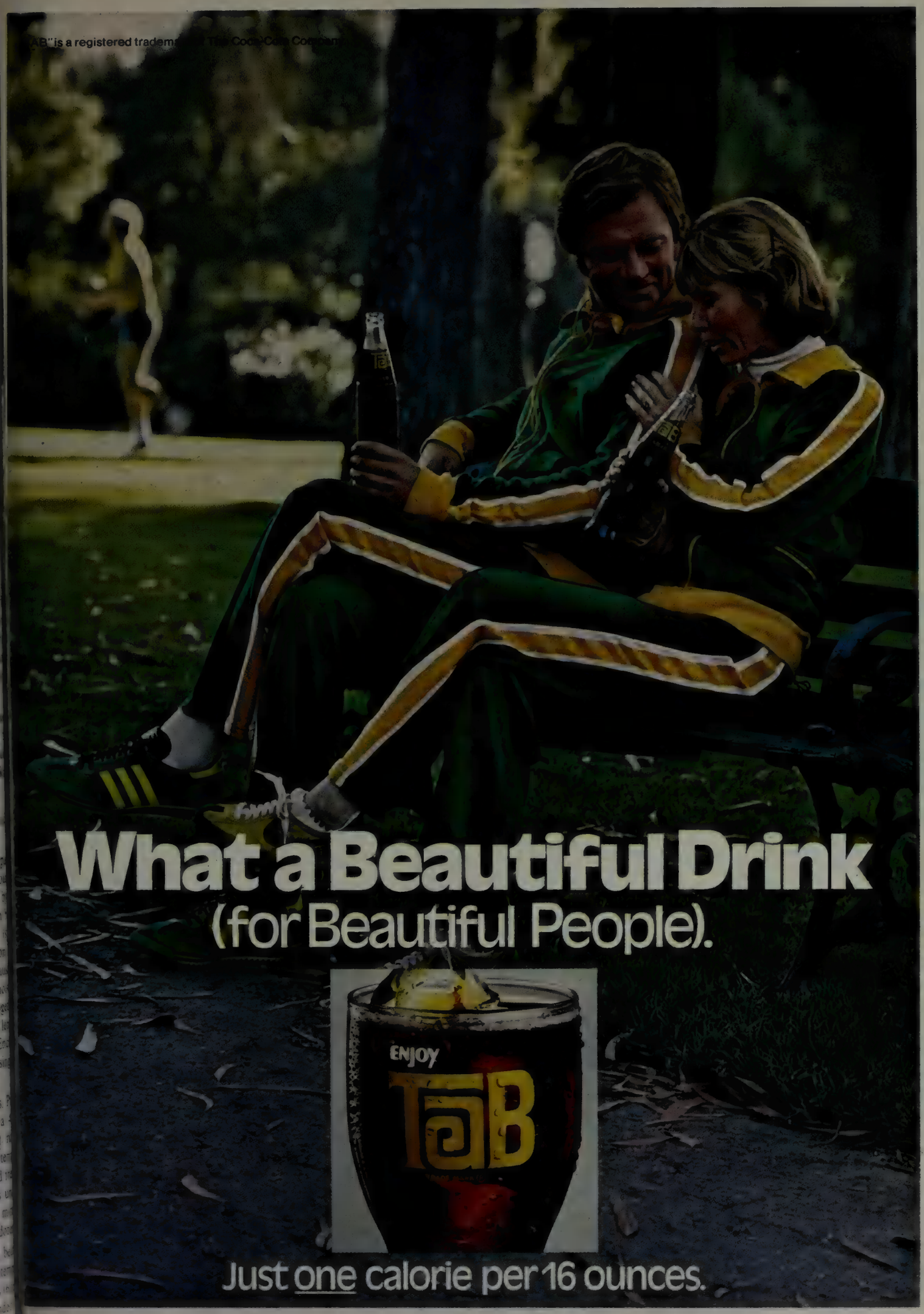
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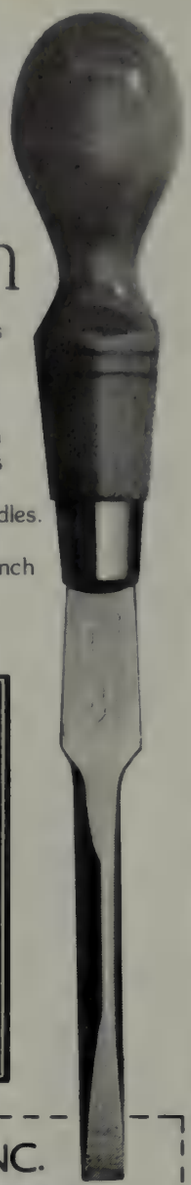

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LEICHTUNG INC.

DARROW M. WATT

As guest looks on, *hostess quickly tosses spinach to heat in electric wok; dressing, chopped egg, and lemon are finishing touches*

A little table cooking is the salad secret

To tickle the appetite, many restaurant chefs grandly create the salad before your eyes. You can practice this tantalizing art perhaps even more daringly for the benefit of your guests.

Instead of the usual routine of mixing oil and vinegar with greens, we propose two simple salads that require brief cooking at the table—easy to manage and impressive. A deep electric frying pan or electric wok works well for the spinach salad, and you can use a fondue pot or chafing dish to make hot dressing for the escarole salad.

Oregon Spinach Salad

- 2 bunches (¾ to lb. *each*) spinach
- 1 tablespoon olive oil or salad oil
- 4 slices bacon, crisply fried and crumbled
- Mustard dressing (recipe follows)
- 1 hard-cooked egg, very finely chopped
- Lemon wedges

Remove tough stems from spinach; wash leaves well and pat dry. Break into bite-sized pieces. Chill well.

At the table, heat oil and bacon in electric wok or deep electric frying p set at 350°. Add spinach and toss ju until all leaves are coated and begin wilt, 1 to 1½ minutes. Turn off he drizzle dressing over spinach, and to until well combined. Serve on individu plates; sprinkle egg evenly on top. Of lemon wedges. Serves 4.—*C. S., Pa Alto, Calif.*

Mustard dressing. In a blender combi ⅓ cup salad oil, 2 tablespoons tarrag wine vinegar, 1 tablespoon Dijon mu tard, 1 teaspoon *each* freeze-dried sh lots and sugar, and ¼ teaspoon sa Whirl until smooth and thick.

Escarole and Sausage Salad

Rinse and pat dry 1 medium-sized he escarole, curly endive, or romaine. To leaves into bite-sized pieces; you shou have 6 cups. Chill well. Combine teaspoon sugar, ¼ teaspoon dry musta ⅛ teaspoon pepper, and 2 tablespoo red wine vinegar; set aside.

Cut 3 slices bacon into ¾-inch pie and place in a fondue pot or chafing d over medium heat. When partia cooked, add 1 Polish sausage, sliced, a cook until meats are browned. Disca all but about 3 tablespoons of drippings. This much can be prepa ahead and simply reheated at the tab Adjust heat to low; add vinegar mixtu and heat, stirring, until blended. Po over greens and toss well. Serves 4.

Together. At last!

California Ripe Olives and Westpac Continental Vegetables

Start something special.

Combine frozen Westpac Continental Vegetables with California Pitted Ripe Olives.

You'll find both at your favorite store. For starters, try these two suggestions.

Southern Corn Casserole

- **1 package (20 oz.) Westpac Creole Medley**
- **1 can California Pitted ripe olives, sliced**
- **1 can (8 oz.) tomato sauce**
- **1 cup shredded Monterey Jack cheese**
- **1/2 teaspoon salt**
- **1/8 teaspoon pepper**
- **2 strips cooked bacon, crumbled**

Partially defrost vegetables. Combine vegetables, olives, tomato sauce, cheese and seasonings. Place in a 1½-quart casserole. Top with crumbled bacon. Bake at 350 degrees for 30 minutes. Serves 6.

Antipasto Salad

- **1 package (20 oz.) Westpac Mediterranean Vegetables**
- **1 can California Pitted ripe olives**
- **1/3 cup oil**
- **1/4 cup wine vinegar**
- **1 clove garlic, crushed**
- **1/2 teaspoon salt**
- **1/8 teaspoon freshly ground pepper**
- **1/4 teaspoon dry mustard**
- **1/4 teaspoon oregano**
- **Crisp greens**

Cook vegetables in ⅓ cup water for 5 minutes. Drain vegetables and olives. Combine oil, vinegar and seasonings. Pour dressing over vegetables and olives. Cover and refrigerate at least 2 hours. Serve over crisp greens. Serves 6.

Olives From California

Free recipe booklet: Dept. "A," 516 N. Fulton, Fresno, CA 93728.

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DARROW M. WATT

Between caramel-nut topping *and cakelike crust, there's apple filling*

It's upside-down ...apple and nuts

Turned upside-down, the bottom of this apple pie becomes a handsome caramel-glazed nut topping. A cakelike crust joins the topping to enclose the cinnamon-scented apple filling.

Upside-down Apple Nut Pie

For the crust, stir together 1¼ cups all-purpose flour (unsifted), 1¼ teaspoons baking powder, ⅓ cup sugar and ⅛ teaspoon salt. With a pastry blender, cut in ⅓ cup shortening until the mixture resembles coarse cornmeal. Lightly beat together 1 egg, 1 tablespoon milk, and ½ teaspoon vanilla. Stir into flour mixture until well blended. Gather dough into a ball; chill.

Peel, core, and thinly slice 4 to 5 large Golden Delicious apples to make 8 cups. Melt 2 tablespoons butter or margarine in a 12-inch frying pan over medium heat. Add apples and cook, turning occasionally, until fruit is tender when pierced and juices have evaporated, about 15 minutes. Stir in 1 tablespoon lemon juice and ½ teaspoon ground cinnamon. Let cool.

Lightly grease the sides of a 9-inch pie pan. With floured fingers, press half of the dough evenly around just the pan sides; do not cover the rim. Keep remaining dough chilled.

Stir together ⅓ cup *each* melted butter or margarine and firmly packed brown sugar. Pour into pan. Arrange about cup pecan or walnut halves in a single layer in bottom of pan. Gently lay apple slices over nuts.

Now gather remaining dough into a ball. Place on a piece of well-floured waxed paper. Flatten dough slightly, dust with flour, and cover with another piece of waxed paper. Roll to a 9-inch circle. Peel off one piece of waxed paper; lift and center pastry over apples, then peel off remaining paper. If pastry tears, lightly press together with fingers. Gently press edges of pastry circle to pastry along pan sides.

Bake in a 400° oven until crust is browned, about 25 to 30 minutes. Remove from oven and run a spatula around sides to loosen. Immediately place a heatproof serving plate over pan and invert, letting pan rest briefly so caramel can drip down over apples.

Serve warm or, if made ahead, cool and cover. To reheat, place in a 325° oven for 10 minutes. Makes 6 servings.

The end of the fatty patty.

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Kidneys frighten people. Address them with prudence

Kidneys frighten people, and frightened people are likely to turn vicious and snap, so it is crucial to prepare kidneys properly. Robert Harris does so in this recipe. Remember to forget anything your English or American grandmother told you about cooking them. French or Italian grandmothers are okay.

Kidney Sauté Robert

- About 2 pounds veal or lamb kidneys
- 4 tablespoons butter or margarine
- 2 cloves garlic, minced or pressed
- 1 tablespoon all-purpose flour
- 1 cup sour cream
- ¼ cup dry red wine
- ½ teaspoon paprika
- 2 large green onions, thinly sliced, tops included
- Salt and pepper
- Hot cooked rice

Cut the kidneys in half and remove and discard interior veins and membrane; cut into bite-sized pieces. In a frying pan over medium-high heat, melt butter and add the kidneys and garlic; cook 8 to 10 minutes or until kidney pieces are barely pale pink at the center and pan juices are reduced to 2 tablespoons.

Stir flour into sour cream until smooth; then stir in the wine and paprika. Pour mixture over kidneys, add onion slices, and cook until hot throughout. Season to taste with salt and pepper, then transfer to a serving dish. Serve with hot cooked rice. Makes 4 to 6 servings.

Sebastopol, Calif.

"The parsnip is a much-shunned vegetable," says *Chef* H. L. Shaw of Seattle. He then proceeds to tell us what to do with this pale relative of the carrot.

Baked Parsnips Shaw

- 6 medium-sized parsnips (about 1 lb.)
- ¼ cup packed brown sugar
- 2 ounces lean salt pork, finely diced
- 1 cup water

Peel the parsnips and cut each into about 2½-inch lengths, then cut each section lengthwise in ¼-inch slices. Place in 9-inch square baking dish. Sprinkle suga evenly over parsnips, top evenly with th salt pork, and pour in the water. Bak uncovered in a 350° oven for about hour, or until parsnips are tender whe pierced and pork is browned. Makes to 6 servings.

Seattle

Babies once arrived in an astonishir variety of ways.

In Alsace the chimney storks brougi them, but pollution and changing metl ods of farming ended that system ar the storks as well. In other parts Europe they simply appeared amor cabbage leaves and were harvested wi the incipient sauerkraut. In England ar America they came in bundles, a gi from on high.

Nowadays, with inflation and a gener paucity of imagination, most babi come the same way: They are deliver by a busy obstetrician together with large bill.

There may be a trend, though, back

Chefs of the West®

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Applesauce Nut Cake

1 package Betty Crocker® yellow cake mix
1 package (3¾ ounces) vanilla instant pudding and pie filling
½ cup chopped nuts
½ cup raisins
1 teaspoon cinnamon
1½ cups applesauce
¼ cup vegetable oil
3 eggs

Heat oven to 350°. Mix all ingredients in ungreased oblong pan, 13x9x2 inches, with fork, scraping corners frequently, until moistened. Stir batter vigorously with fork 1 minute; scrape sides with rubber spatula. Spread batter evenly in pan. Bake until top springs back when touched lightly in center, 35 to 40 minutes; cool. Loosen cake from sides; cut and serve directly from pan. Store any remaining cake loosely covered in refrigerator.
High Altitude (over 3500 feet): Not recommended for use.

Look for other delicious recipes on all of our cake mix packages.

®Reg. T.M. of General Mills, Inc.

Sour Cream Peach Cake

package Betty Crocker® Sunkist** orange cake mix
can (21 ounces) peach pie filling
½ cup dairy sour cream
2 eggs

eat oven to 350°. Mix all ingredients in ungreased oblong pan, 13x9x2 inches, th fork, scraping corners frequently, until moistened. Stir batter vigorously th fork 1 minute; scrape sides with rubber spatula. Spread batter evenly pan. Bake until top springs back when touched lightly in center, 40 to minutes; cool. Loosen cake from sides; cut and serve directly from n. Store any remaining cake loosely covered in refrigerator.
gh Altitude (over 3500 feet): Heat oven to 375°. Stir 2 table-oons flour into cake mix. Continue as directed.

Look for other delicious recipes on all of our cake mix packages.

®Reg. T.M. of General Mills, Inc.
**Reg. T.M. of Sunkist Growers, Inc.

Triple Chocolate Cake

1 package Betty Crocker® devils food cake mix
1 package (4½ ounces) chocolate instant pudding and pie filling
1 package (6 ounces) semi-sweet chocolate chips
1¼ cups water
¼ cup vegetable oil
2 eggs

Heat oven to 350°. Mix all ingredients in ungreased oblong pan, 13x9x2 inches, with fork, scraping corners frequently, until moistened. Stir batter vigorously with fork 1 minute; scrape sides with rubber spatula. Spread batter evenly in pan. Bake until top springs back when touched lightly in center, 40 to 45 minutes; cool. Loosen cake from sides; cut and serve directly from pan. Store any remaining cake loosely covered in refrigerator.
High Altitude (over 3500 feet): Not recommended for use.

Look for other delicious recipes on all of our cake mix packages.

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The best things gin with Betty Crocker

the natural and mysterious. Of course our *Chefs* are in the vanguard of any trend. *Chef* Rush Faber tells of his own experience: "It's me again, the midnight muncher, returning after three years. In the meantime, a small male child appeared here without the slightest provocation. Dealing with this event required my presence at least thrice nightly, and before nodding off I usually soothed my anguish with a mini-munch." Here is the munch.

Canapés Phynorque

- 10 slices thick-sliced bacon
- 3 to 4 ounces jack or Swiss cheese
- 1 can (about 3¾ oz.) smoked oysters, drained
- Melba toast (optional)

In a frying pan over medium heat, cook bacon until crisp; drain on paper towels. Cut cheese into thin slices the size of the cooked bacon and place on top. Arrange oysters evenly over cheese. Place on a ungreased baking sheet and bake in 350° oven for 3 to 5 minutes or unt cheese begins to melt. Cut each bacc slice across in half to eat as is, or cut int segments to fit Melba toast. Makes abo 20 canapés.

"Babies once arrived in an astonishing variety of ways. In Alsace the chimney stork brought them"

Phoenix

Chow mein is a stab at reproducing tl Mandarin words for "fried noodles Among the Chinese, the dish is often kind of snack or quick meal, with a fe bits of meat or vegetable added f flavor. Taking an American approac Ray Faulk makes the noodles a secon ary feature. Instead of stir-frying the as a Chinese chef might do, he makes kind of noodle pancake, crisp on one si but still noodly on the other.

Ray Mein

- ½ package (16-oz. size) fresh Chinese-style thin noodles or tagliarini
- Boiling, salted water
- 6 tablespoons salad oil
- 1½ pounds lean boneless pork, cut in ½ by 2-inch strips
- 1 large onion, cut in lengthwise slices
- 1½ cups celery, cut in ⅛-inch slices
- 1 green pepper, seeded and cut in thin strips
- 2 cups fresh bean sprouts
- ¼ pound mushrooms, sliced
- 4 teaspoons packed brown sugar
- 2 tablespoons vinegar
- 2 tablespoons soy sauce

Cook noodles in boiling water accordi to package directions. Drain well a set aside.

Heat 2 tablespoons of the oil in a la frying pan over medium-high heat; a pork and brown well on all sides. Redu heat to low, cover, and cook until p is tender when pierced, 20 minutes; often. Increase heat to medium-hi then add onion, celery, green pepp sprouts, mushrooms, brown sugar, vi gar, and soy; cook 4 to 6 minutes

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STORE COUPON 9163

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until vegetables are tender-crisp to bi
Meanwhile fry the noodles: In a lar
frying pan, heat the remaining 4 tab
spoons of oil until very hot. Add t
noodles in an even layer and fry ov
medium-high heat until the ones at t
bottom are crisp and brown, 6 to 8 mi
utes. Invert the noodles in a mass onto
serving plate, pour over the pork m
ture, and serve at once, cutting throu
the noodles to make pie-shaped piec
Makes about 6 servings.

Ray Faul
Ventura, Calif.

Chef George Lewis is a sociologist at t
University of the Pacific in Stockt
Guests at his house are likely to m
with an interesting dinner—possi
sweetbreads with a delicate oran
flavor. The thing to hold firmly in mi
if you try his recipe is that overcook
sweetbreads turn to a fine grade
natural rubber.

Sherried Sweetbreads à l'Orange

- 1 pound veal sweetbreads (thaw first if frozen)
- Water
- 1 tablespoon lemon juice
- 5 tablespoons butter or margarine
- ½ pound mushrooms, sliced
- 2 tablespoons all-purpose flour
- ½ cup regular-strength chicken broth
- ¾ cup milk
- ¼ cup dry Sherry
- ¼ teaspoon grated orange peel
- ⅛ teaspoon ground nutmeg
- ½ cup shredded Swiss cheese
- Salt and pepper
- Chopped parsley
- Toast or hot cooked rice

Soak sweetbreads in cold water to co
for 1 hour; drain. Place sweetbreads
3-quart pan, cover with water, add lem
juice, and bring to a boil.
Reduce heat, cover, and simmer 20 m
utes or until sweetbreads are firm and
longer pink throughout. Drain, t
plunge into cold water. With your fin
remove and discard membrane and tu
from sweetbreads; separate into sm
clusters and pat dry.
In a frying pan over medium-high h
melt 2 tablespoons of the butter and
the sweetbreads and mushrooms. S
until sweetbreads are just lig
browned. Lift out and set aside.
Melt the remaining 3 tablespoons bu
in the frying pan and stir in flour; c
until bubbly. Blend in the chicken br
milk, and Sherry and cook, stirring,
thickened. Add orange peel, nutmeg,
Swiss cheese, stirring until cheese m
and blends. Remove from heat, add
and pepper to taste, and stir in the sw
bread mixture. Spoon into a serving
and garnish with parsley. Serve over
or rice. Makes 2 or 3 servings.

George H
Stockton, Cal

SUI

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First you pound and brown two pounds of boneless round steak

Years ago, Swiss steak was served fairly regularly in many homes, but now it's often overlooked when planning family meals. That's unfortunate, because this braised round-steak dish is easy to prepare in a variety of ways.

Here are three recipes that we think show round steak's versatility. For each, we suggest using boneless bottom round steak—labeled Swiss steak in some markets. It's less expensive than top round and becomes just as moist and tender when braised.

Pounding and browning the meat. Trim fat from meat and cut into 4 to 6 serving-sized pieces. Lay pieces on waxed paper; sprinkle with salt and pepper and about 1 tablespoon flour. With a mallet or the edge of a saucer, pound flour into meat. Turn pieces over; sprinkle with salt, pepper, and another 1 tablespoon flour, then pound again.

In a 4-quart Dutch oven, heat 2 table spoons salad oil over medium heat. Add meat, a few pieces at a time, and brown well on both sides; remove meat from pan as it browns. Add more salad oil if needed. Continue as each recipe directs.

Swiss Steak Chile with Beans

Trim, pound, and brown 2 pounds bone less round steak (cut ¾ inch thick) as directed above. Add more salad oil to pan if needed, then add 1 large onion chopped, and 1 clove garlic, minced or pressed. Cook, stirring, until onion is limp. Return meat to pan and add 2 cans (7 oz. *each*) green chile salsa, 1 teaspoon chile powder, and ½ teaspoon *each* salt and ground cumin.

Cover and bake in a 325° oven (or simmer on top of the range) for 1 hour. Add 1 can (1 lb.) kidney beans, drained, and 1 can (2¼ oz.) sliced ripe olives, drained. Cover and continue baking (or simmering) for about 30 minutes longer or until meat is tender when pierced. Skim fat and transfer to a serving dish; sprinkle with ½ cup shredded Cheddar cheese. Serves 4 to 6.

Barbecue-style Swiss Steak

Trim, pound, and brown 2 pounds boneless round steak (cut ¾ inch thick) as directed above. Add more salad oil to pan if needed, then add 2 large onions, sliced. Cook, stirring often, until onion is limp. Return meat to pan. Also stir together 1 single-serving-size package onion soup mix, ½ cup tomato-based chile sauce or catsup, ½ cup water, 2 tablespoons lemon juice, and 1 teaspoon *each* Worcestershire and Dijon mustard; pour over meat.

Cover and bake in a 325° oven (or simmer on top of the range) for 1½ hours or until meat is tender when pierced. Skim fat and transfer to a serving dish; spoon onions and sauce over meat. Makes 4 to 6 servings.

Teriyaki Swiss Steak and Vegetables

Trim, pound, and brown 2 pounds boneless round steak (cut ¾ inch thick) as directed above. Return meat to pan.

Stir together ⅓ cup soy sauce; 2 tablespoons *each* sugar and dry Sherry; 1 teaspoon minced fresh ginger (or ¼ teaspoon ground ginger); 2 cloves garlic, minced or pressed; and ½ cup water. Pour over meat.

Cover and bake in a 325° oven (or simmer on top of the range) for 1 hour. Add 12 small white boiling onions, peeled; 3 carrots, sliced diagonally about ½ inch thick; and ¼ pound small whole fresh mushrooms. Cover and continue baking (or simmering) for another 30 minutes or until meat and vegetables are tender. With a slotted spoon, transfer meat and vegetables to a dish. Skim fat from juices and serve in a bowl to pass at the table. Serves 4 to 6.

Crepes a la Crab

ALASKA CRAB FILLED CREPES

1 8 oz. package WAKEFIELD SNOW CRAB OR KING CRAB MEAT
¼ cup butter or margarine
⅓ cup chopped green onions
1 cup thinly sliced celery
1 cup chopped mushrooms
3 tablespoons flour
1⅓ cups milk
⅓ cup grated Swiss cheese
¼ teaspoon salt
⅛ teaspoon pepper
Dash of nutmeg
8 cooked crepes
Parmesan cheese (optional)

Thaw crab meat, retain liquid and separate into chunks. In saucepan saute onions, celery and mushrooms in butter or margarine for 2 to 3 minutes. Remove with slotted spoon and set aside. Stir flour into fat until smooth. Add milk and crab liquid, cook until thickened. Stir in cheese, salt, pepper and nutmeg. In small bowl toss together crab, onions, celery, mushrooms and ½ cup of sauce. Season to taste. Spread equal amount of filling across center of each crepe and roll up or fold over. Place in shallow baking pan and pour remaining sauce over the top. Sprinkle with Parmesan cheese if desired. Heat in 350 oven for 10 to 15 minutes. Makes 8 crepes.

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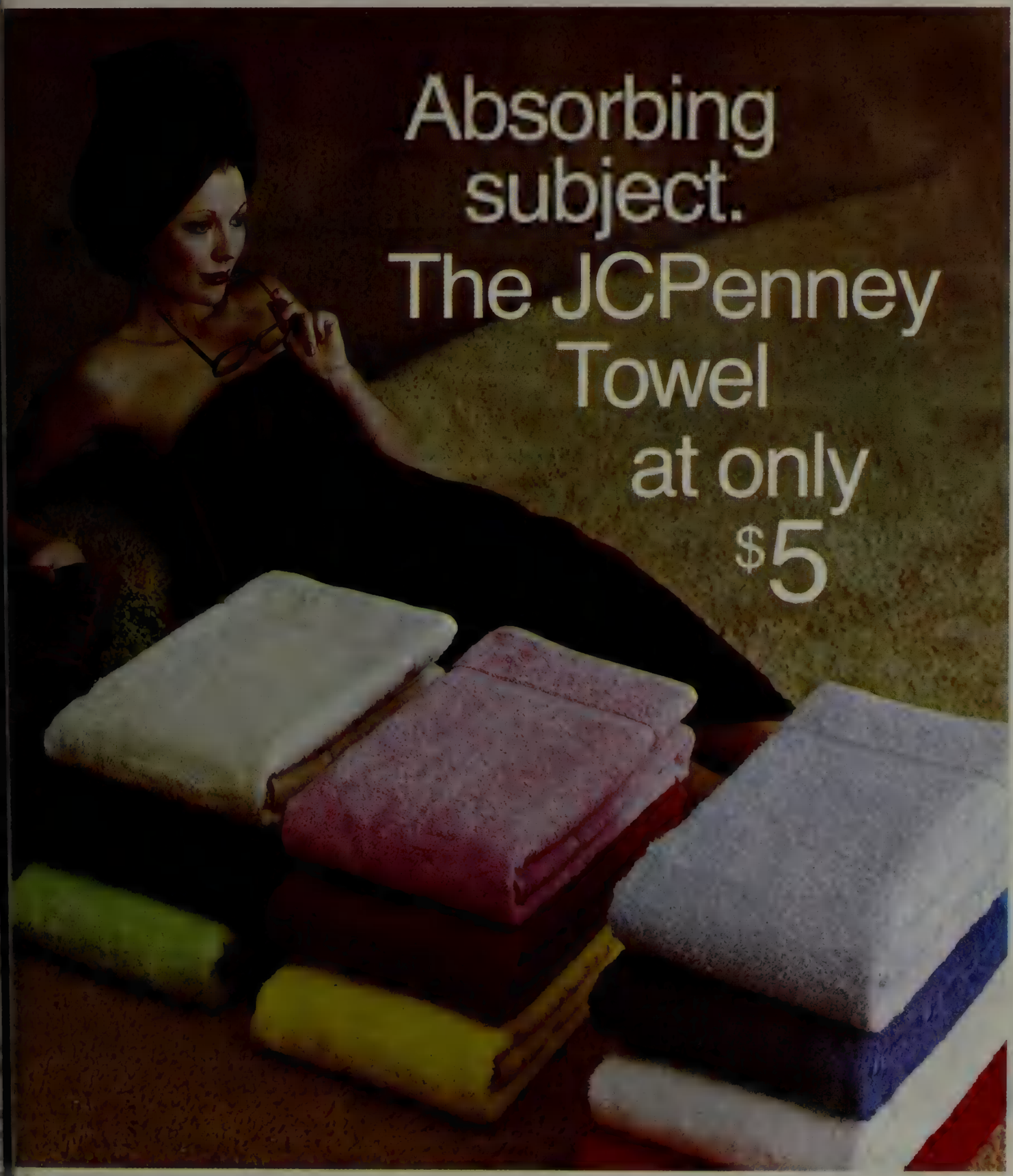

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DARROW M. WATT

After frisbee tossing, *it's time to enjoy warm tortillas filled with beans and sausages, an egg dip for crisp vegetables, and a mug of cider*

MARCH MENUS

Three liberate-the-cook meals, a park picnic, a Hawaiian-style salad supper, and a meatball soup supper

To liberate the cook at mealtime, w focus our attention this month on one dish entrées—a casserole, a salad, an a soup. Each can be prepared as tim permits, ready to serve in minutes wit a few simple accompaniments.

There's a casserole of beans and sausag to carry along on a spring outing o enjoy for supper in front of the fire. Fo entertaining, consider the colorful an refreshing shrimp salad that marinates i a spicy, wine vinegar dressing. And a impromptu party for friends or family easy with a hearty meat and vegetabl soup on hand.

Picnic in the park

Canned pork and beans, embellishe with sausage slices and green chiles, kee hot in a heavy casserole. You spoo them into warm, soft tortillas to eat o of hand along with vegetables and dip.

Baked Beans Olé
Warm Soft Corn or Flour Tortillas
Raw Vegetable Basket with Crunchy Egg Dip
Tangerines **Cookies**
Hot or Chilled Cider

You can stir the beans together early the day and then bake them just befo leaving for the picnic site. Dampen you hands with water, pat each tortilla, a then stack and wrap in foil. Heat in t same oven during the last 15 minut the beans are baking. Then wrap t tortillas and the casserole in several la ers of newspaper or pack in an insulat container to keep warm in transit.

You can prepare the egg dip ahead; keeps well for three or four days. Ser with your choice of raw vegetables su as sliced zucchini, carrots, cucumbe cauliflowerets, edible pod peas, or che tomatoes for dipping.

Baked Beans Olé

- 1 large can (3 lb. 5 oz.) pork and beans
- ¼ cup firmly packed brown sugar
- ¼ cup chopped parsley
- 1 can (4 oz.) diced California green chiles
- 1 pound kielbasa (Polish sausage), sliced
- ½ teaspoon Mexican seasoning
- ¼ teaspoon ground cumin
- 1 can (3 oz.) French fried onions

In a 2-quart casserole, stir together pork and beans, sugar, parsley, gr chiles, sausage slices, Mexican seas ing, and cumin. Bake, uncovered, i 350° oven for 35 minutes, or until throughout; stir several times. Sprin onions evenly over top and continue bake 3 to 5 minutes longer, or u onions are lightly browned. Rem from oven, cover, then wrap or p

On our NCL cruise we took in all the ship's activities. And a few of our own.

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margarine until mixture has a mealy consistency.

Homemade soup dinner

Meatballs and a variety of vegetables simmer together to make a robust soup that is surprisingly quick and easy.

Meatball Vegetable Soup
Breadsticks
Iceberg Lettuce Wedges
Thousand Island Dressing
Two-berry Gelatin

The soup is just as good reheated, so you can even make it the night before. Cool, cover, and refrigerate if made ahead. Also prepare the dessert well in advance so it has ample time to become firm.

Meatball Vegetable Soup

- 2 tablespoons butter or margarine
- Meatballs (recipe follows)
- 1 quart water
- 5 beef bouillon cubes
- 1 can (1 lb.) sauerkraut, well drained and chopped
- 1 can (1 lb. 12 oz.) stewed tomatoes
- 1 envelope dry onion soup mix, enough for 4 to 6 servings
- 2 cups thinly sliced carrots
- ½ cup sliced celery
- 1 bay leaf
- 1 tablespoon packed brown sugar
- Salt and pepper
- Grated Parmesan cheese

Melt butter in a 5-quart kettle over me dium heat; add half the meatballs at a time and brown well on all sides. Se meatballs aside. Discard fat from kettle then add the water, bouillon cubes sauerkraut, tomatoes (break up with a spoon), soup mix, carrots, celery, ba leaf, and sugar. Cover and simmer fo 30 minutes; add browned meatballs. Sea son with salt and pepper to taste. Cove and simmer 30 minutes longer.

Serve in wide, shallow soup plates an pass Parmesan cheese to sprinkle ove top. Makes 6 to 8 servings.—*M. D Morro Bay, Calif.*

Meatballs. Mix 1½ pounds lean groun beef, 1 egg, 2 tablespoons fine dry brea crumbs, 1 tablespoon Worcestershire, ½ teaspoon salt, ¼ teaspoon pepper, tablespoons chopped parsley. Shape i bite-sized balls.

Two-berry Gelatin

Sprinkle 1 envelope unflavored gelati over ½ cup water; let stand about minutes to soften. In a small pan, com bine 1 package (10 oz.) frozen raspbe ries, thawed, and their juices with ¾ cu cranberry juice cocktail, 2 tablespoo lemon juice, and ¼ cup sugar. Stir softened gelatin and place over mediu heat until sugar and gelatin are dissolve Pour into 4 sherbet glasses and chill un firm, at least 6 hours.

To serve, top each dessert with a doll of vanilla-flavored yogurt or whipp cream. Serves 4.—*J. S., Del Mar, Calif.*

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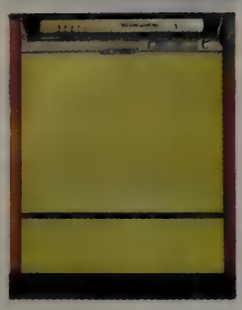

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Health waffles? Why not

The delightful nutty flavor of these nutritious waffles comes from whole grain flours—graham and whole wheat. You can serve them as a breakfast treat topped with butter, honey, or syrup.

The waffles can be thick or thin, depending on the type of iron you use. A Belgian waffle iron with deep indentations makes thick waffles with deep holes. A regular electric waffle iron produces thinner, crisper waffles.

In the first recipe, coarse graham flour adds a pleasing crunch and buttermilk makes the waffles light and crisp. The whole wheat version is sturdier, with a hearty wheat flavor.

Crisp Graham Waffles

Stir together 2 cups graham flour, 2 tablespoons sugar, 1 teaspoon soda, and ¼ teaspoon salt. Separate 2 eggs; beat the yolks with 2¼ cups buttermilk and ¼ cup salad oil, then stir into flour mixture. Beat egg whites until soft moist peaks form; fold into batter.

With a Belgian waffle iron: Spray iron with a nonstick vegetable finish, if desired. Place over medium-low heat, turning iron over often until water dripped inside sizzles, or until the thermometer on both sides of iron register in the middle of "bake."

Open and brush grids lightly with salad oil, if spray was not used. Depending on size of iron, spoon ¾ to 1¼ cups batter onto iron; close and bake about 45 seconds. Then turn iron over every 30 seconds until waffle is crisp and brown, about 5 to 7 minutes. Serve hot with butter, honey, or syrup. Makes 4 Belgian waffles, 8 inches square.

With an electric iron: Spray iron with a nonstick vegetable finish, if desired. Preheat as manufacturer directs, then brush grids with salad oil, if spray was not used. Spoon in recommended amount of batter and bake according to manufacturer's directions. Makes 5 regular waffles 10 inches square.

Whole Wheat Waffles

Mix together 2 cups whole wheat flour, ½ cup nonfat dry milk, ¼ cup wheat germ, 2 tablespoons sugar, 1 tablespoon baking powder, and ¾ teaspoon salt. Separate 2 eggs; beat the yolks with 1½ cups water and ¼ cup salad oil, then stir into flour mixture. Beat whites until soft, moist peaks form; fold into batter. Bake and serve as directed above. Makes 3 Belgian or 4 regular waffles.—*B. . Portland.*

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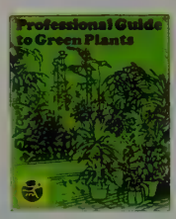

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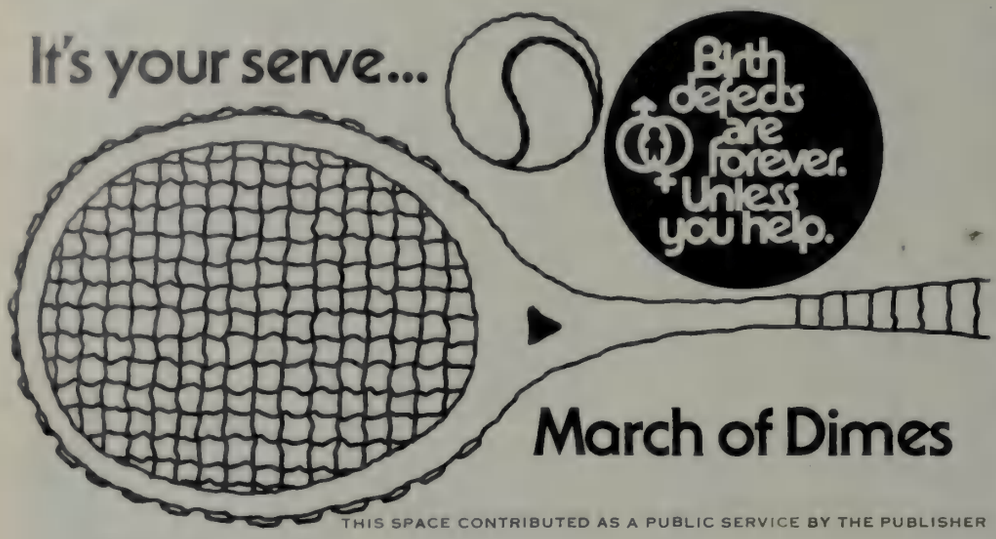

March of Dimes

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Your family will yodel for more after they taste this Italian-Swiss masterpiece. They'll savor Golden Grain Home-style rolled egg noodles made with high protein Durum wheat and pasteurized egg yolks—naturally golden fresh. Every forkful is Italian-Swiss bliss.

Mama DeDomenico's

Swiss Steak, Italian Style

- 1 lb. round steak, cut into pieces
- 3 Tbsp. flour
- 1 tsp. salt
- ¼ tsp. pepper
- 3 Tbsp. oil
- ¾ cup chopped onion
- 2 cans (15 oz. each) GOLDEN GRAIN Marinara Sauce
- ½ cup red wine or water
- 2 cups sliced celery
- 1 cup green pepper strips
- 1 pkg. (12 oz.) GOLDEN GRAIN Noodles

Dredge steak in mixture of flour, salt, pepper. Brown in hot oil. Stir in onions and saute. Add Marinara Sauce, wine; bring to boil. Add celery and green pepper. Simmer, covered, 45 minutes or until meat is tender. Prepare noodles according to package directions. Serve sauce over noodles. Makes 6 (1¾ cup) servings.

Get Mama DeDomenico's recipes free. Send self-addressed, stamped business size envelope to: Golden Grain, P.O. Box 24024, Oakland, CA 94623.

Put some bran in your bread?

Our mail indicates that many cooks are trying to increase the food fiber or roughage content of family meals. (Much interest stems from current beliefs linking some disorders with fiber deficiency.)

Fruits, vegetables, legumes, and whole grain breads and cereals are good sources of fiber. But for anyone who bakes regularly, another easy and effective way of increasing roughage is to add a little bran to whatever baked goods you make with refined flour. It simply restores roughage removed in milling.

Unprocessed miller's bran, a by-product of flour milling, is the least expensive form of bran; a pound costs about 30 cents in health food stores and some supermarkets.

After testing with many of *Sunset'* bread recipes as well as basic breads such as biscuits and muffins, we concluded that generally ½ to 1 cup bran can be added right along with the flour. The proportions of liquids and other ingredients don't change. The usual result is extra nutlike flavor and chewier texture. Pastry for pie crusts, pancakes and waffles also benefited from the bran addition.

Following is a beginning guide for adding bran to your own recipes:

Biscuits. In standard recipes based on cups flour or 2 cups prepared baking (biscuit) mix, you can add ½ cup bran with the flour or mix. (We also added that amount to the Quick Sourdough Biscuits on page 132 of the February 1976 *Sunset*.)

Coffee cakes, muffins, and quick loaves. Add up to ½ cup bran to recipes for 9-inch square and 9 by 13-inch coffee cakes and to muffin recipes that make dozen large muffins.

Pastry for pie crust. Try adding ⅓ cup bran to the flour when you make standard pastry for a double-crust 9-inch pie. Or blend ⅓ cup bran with the crumbled mix (amount for double-crust 9-inch pie) when making pastry from prepared pie crust mix.

Pancakes and waffles. Use about ¼ cup bran for each 1 cup flour in pancake and waffle recipes.

Yeast breads. In recipes that make standard 5 by 9-inch loaves, blend 1 cup bran with the flour. Use about ½ cup bran in recipes that make 2 small loaves, that make a pan of rolls, or for loaves of batter bread that you can bake in coffee cans.

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Mrs. Lenora Smith, 1976 Bake-Off® Contest Grand Prize Winner.

Look for this winning Bake-Off® Contest recipe on specially marked sacks of Pillsbury's Best® Flour.

©The Pillsbury Company, 1976

Lemon *contributes a lively fresh flavor to Vietnamese salad of chicken, onion, cabba*

Chicken salad from Vietnam . . . it's lemony

Unlike most chicken salads, which c for leftover cooked meat, this one begi with seasoned slivers of chicken bre that you quickly stir-fry especially f the salad. When the meat is cold, co bine it with a lemony dressing and cri shreds of cabbage and green onion fo luncheon entrée.

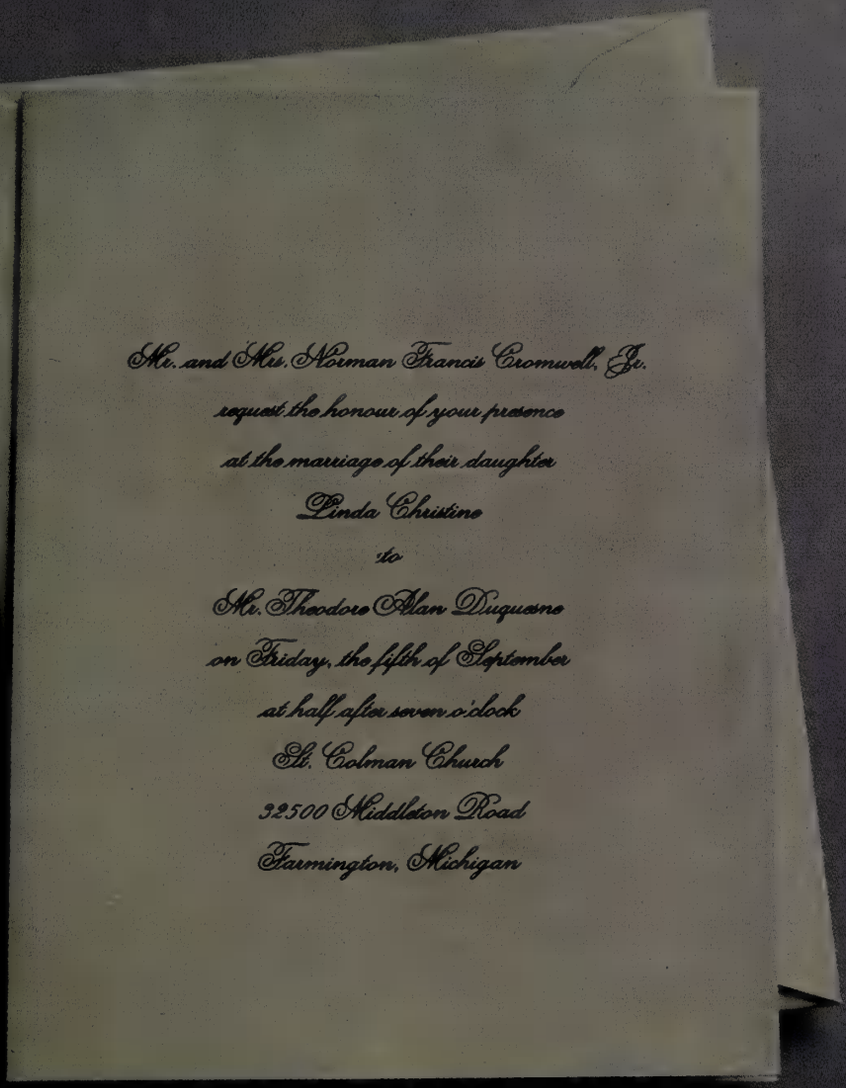
Vietnamese Chicken Salad (*Goi Ga*)

- 1 large chicken breast (about 1½ lbs.), skinned and boned
- 2 green onions
- ½ teaspoon minced fresh ginger
- 1 teaspoon salt
- ½ teaspoon pepper
- ¼ cup salad oil
- 3 tablespoons lemon juice
- ½ teaspoon sugar
- About 6 ounces cabbage

Thinly slice the chicken, then cut matchstick-size strips. Cut green tops onion in 2-inch lengths, then cut ea piece lengthwise into thin strips; aside. Finely chop white part of onio Combine chopped onion, chicken, ging ½ teaspoon of the salt, and ¼ teaspo of the pepper.

In a large frying pan, pour 2 tablespoo of the oil; place over high heat. When is hot, add chicken mixture. Cook, s ring constantly, until the chicken is longer pink, about 2 minutes. Co cover, and chill.

Stir together the lemon juice, sugar, remaining salad oil, salt, and pep Finely shred the cabbage with a kn to make 3 cups. Just before serving, together chicken, lemon juice mixtu cabbage, and onion strips. Serves 2 *Y. F., Gresham, Ore.*



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DARROW M. WATT

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They cut extra boards to fit flush with and blend into the existing deck. When in place, the boards rest on a recessed wooden lip that runs around the inside of the basin. When the Christiansens want color, they remove the boards and plant annuals in the loam around the tree. By planting flowers from flats, they can have instant color, without the in-between stage of tender seedlings to nurse to maturity. □

Cutout boards *around patio tree can be left in (above) to make a solid deck or removed (below) to open up planter for annuals*

GLENN CHRISTIANSEN

DARROW M. WAT

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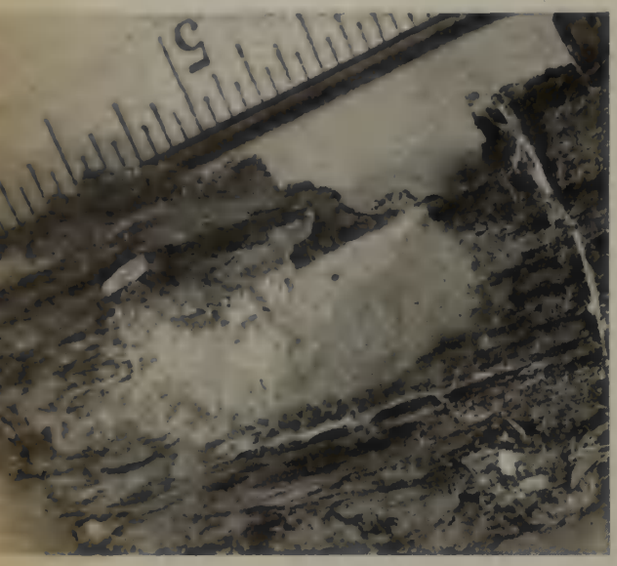

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Instant deck, instant planter

When Mr. and Mrs. Merle Christiansen built a wood-floored patio around a patio tree, they decided to make the 12 by 28-inch space more than just a watering basin—it also works as a planter.

They cut extra boards to fit flush with and blend into the existing deck. When in place, the boards rest on a recessed wooden lip that runs around the inside of the basin. When the Christiansens want color, they remove the boards and plant annuals in the loam around the tree. By planting flowers from flats, they can have instant color, without the in-between stage of tender seedlings to nurse to maturity. □

Cutout boards *around patio tree can be left in (above) to make a solid deck or removed (below) to open up planter for annuals*

GLENN CHRISTIANSEN

Barrier *for a new bamboo planting is frame of 2 by 4's, 2 feet deep, faced with sheet aluminum*

PETER O. WHITELEY

Two bamboos *now planted inside barrier shown above will produce usable culms in two or three years*

JERRY FREDRICK

These culms *harvested from a mature stand of golden bamboo (in background) are slender but will come in handy for garden stakes or as the materials for trellises and fences*

Bamboo as lumber . . . for stakes, fences, other uses. First choose the right kind

Many a gardener we know finds himself rummaging around his scrap lumber pile at inconvenient times because some plant has developed a sudden need for a crutch: a bean pole, pea stake, or anything to prop up a top-heavy flower stalk or whippy young tree. Often the search is futile, so it's off on an emergency run to a nursery or lumberyard.

In Japan or China a gardener would be prepared for such emergencies with a good supply of seasoned bamboo culms. (A culm is the hollow stem of a jointed grass, which bamboo is.)

We can do the same in the Western United States. In fact, the bamboo you plant in your garden for landscape value can also provide you with gardener's lumber. Bamboo culms serve not only for stakes but also for trellises, tripods, garden screens, light fences, and more.

The problem of joinery is not critical, since garden structures made of bamboo usually need not be permanent. You can't nail bamboo very well unless you predrill the holes. But you can tie members together with cord, twine, or light wire. This has been done for centuries in the Orient and in the tropics, where bamboo houses are common.

Which bamboo?

If a bamboo you see in a nursery or home garden is producing culms large enough for your uses, that may be the bamboo for you. But if you want to be more choosy, pick a species noted for the size and strength of its culms and for its adaptability to a variety of garden lumber uses (see bamboo section in the *Sunset Western Garden Book*).

The Western demand for bamboo is still so low that most nurseries don't keep many kinds in stock. The three found most often are golden (*Phyllostachys*

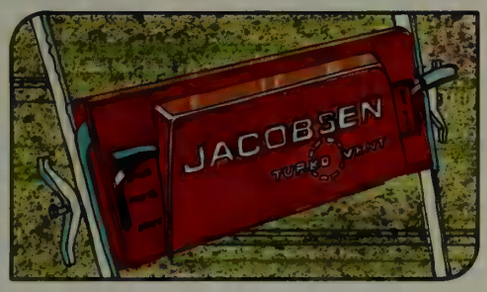
You're in charge with the Jacobsen Turbo-Vent® mower. Adjusts to you and your lawn.

A Jacobsen Turbo-Vent mower has separate controls for adjusting walking speed and blade cutting speed. It adjusts to your walking pace, your lawn's condition.

And special Turbo-Vents in the deck help prevent clogging and stalling.

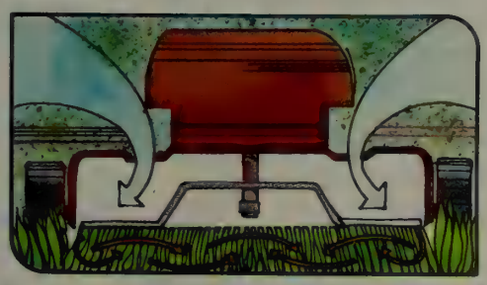
Cutting speed vs. walking speed.
An ordinary self-propelled lawn mower has a single throttle. When you run into tough cutting conditions and increase the blade speed, the walking speed increases, too. And the mower drags you along with it.

Jacobsen's Pace Command® drive overcomes these problems.
With Pace Command, you have separate controls for the blade and the drive wheels. For example, you can slow the walking speed—for tougher grass, hotter days, or shorter legs—while maintaining the proper cutting speed.



You set the mower to the most comfortable walking speed and you adjust the blade speed to the condition of the lawn.

The importance of air flow.
A major cause of lawn mower clogging and stalling is inadequate air flow through the mowing chamber. Many mowers draw air only from under the edge of the deck, and in heavy grass they are unable to suck in sufficient air to



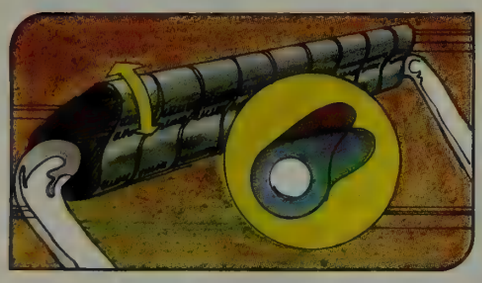
keep the clippings moving. The clippings build up and stall the mower.

The Turbo-Vent principle employs scientifically shaped and placed holes in the top of the deck to draw air from above as well as from below.

A strong flow of air is maintained through the mowing chamber which sweeps the clippings constantly through the discharge chute. This considerably reduces the chances of clogging and stalling.

Also, these vents create a vacuum-like effect which pulls the uncut blades of grass upright, resulting in a smooth, even cut.

And this powerful flow of air results in a highly compact bagging action. The bag is packed tighter, holds more grass, and doesn't need emptying as often.



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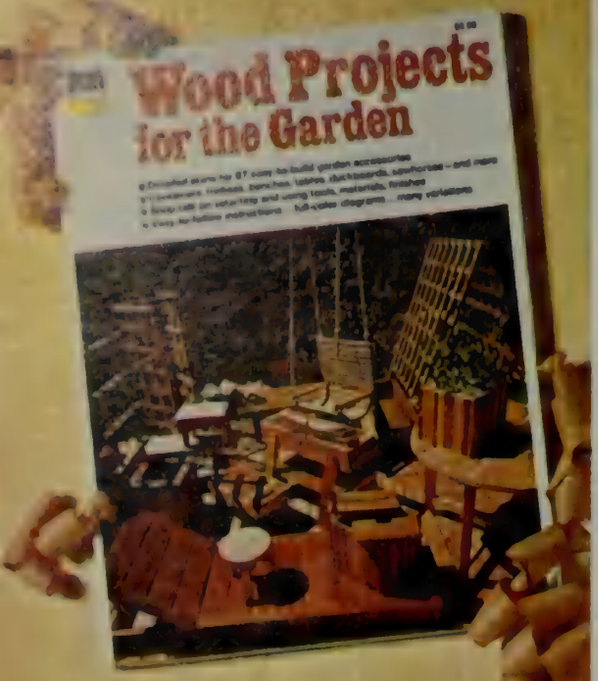

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aurea), giant timber (*P. bambusoides*), and black (*P. nigra*). All of these are the running-type bamboos that can form large groves due to the rapid horizontal growth of underground stems.

Giant timber bamboo, with culms up to 6 inches in diameter, is the king of the lumber bamboos. However, in the past few years giant timber bamboos have been flowering and dying back all over the West (it appears that many, if not all, came from the same parent plant in Japan in 1904). So it remains to be seen how many will survive flowering and resume normal culm production.

Golden bamboo, with culms up to 2 inches in diameter, is suitable for garden lumber of much smaller dimensions. Black bamboo has even smaller culms.

Other running types of bamboo recommended for garden lumber include: *Arundinaria simonii* and yellow groove (*Phyllostachys aureosulcata*), both carried by a number of nurseries in California; plus *P. meyeri*, moso (*P. pubescens*), *P. viridis*, and *P. vivax*, all rarer and harder to find.

Particularly in Southern California, the list of recommendations might further include hedge (*Bambusa multiplex*), Clumping giant timber (*B. oldhamii*) and punting pole (*B. tuldoides*). These are clump-growing types that slowly expand in diameter with very little horizontal growth underground.

Here and there you'll encounter an individual nurseryman who likes bamboo and keeps quite a few species on hand; you may have to search for him. Even if a nurseryman doesn't have much bamboo in stock he may be able to furnish the address of one of the handful of growers around the country who sell bamboos by mail order.

Another source is home gardens. A bamboo usually grows so vigorously that its owner shouldn't mind giving away a clump. Survival is more certain if transplanted during dormancy (early fall to early spring), or no later than when the first new culms appear.

How to make running bamboos stop running

Under favorable conditions a running bamboo may spread indefinitely. The best countermeasure is to keep conditions unfavorable around its edges.

In a summer-dry climate this might mean strict rationing of summer water to your bamboo stand, with no watering of the ground around its edges. One *Sunset* reader uses a deep ditch filled with leaves as a moatlike barrier; runners that make forays are easy to cut off with a mattock each spring.

There is no real guideline on how deep a solid barrier need be. Recommendations range from 1½ feet for smaller

GLENN CHRISTIANSEN

Giant timber bamboo *planted 13 years ago yields good garden lumber. Hacksaw cuts large, hard culms easily*

species to as much as 3 feet for gian timber bamboo.

Pavement or a concrete curb is usuall barrier enough. Two curbs 2 feet apa and about 1 foot deep have for severa decades contained the golden bambo plants from which the culms are bein cut in the photograph on page 212.

Sunken flue tiles, set vertically into th ground as bottomless plant tubs, are th ultimate in containment but severel limit culm production.

Harvesting and curing

A bamboo culm takes two or three yea to mature. It reaches maximum diamet at emergence and maximum height i weeks, but continues to harden. Typ cally it's ready to cut when color change from green to slightly golden.

It's easy to cut or pull side branches o green culm. To strip a harder cul neatly, use a machete or heavy knif Give each side branch a slanting unde cut close to the trunk, then a whack o top to break it off.

At this stage there's not much to b done about a curved culm. The stea treatment by which commercial proce sors can straighten bamboo isn't pra tical for a home gardener.

To cure bamboo culms, store them fl in a shady place with adequate air circ lation to dry. Let them dry for at lea three months, maybe as long as s months. This allows both the hard out surface and the soft inner section to ga maximum strength.

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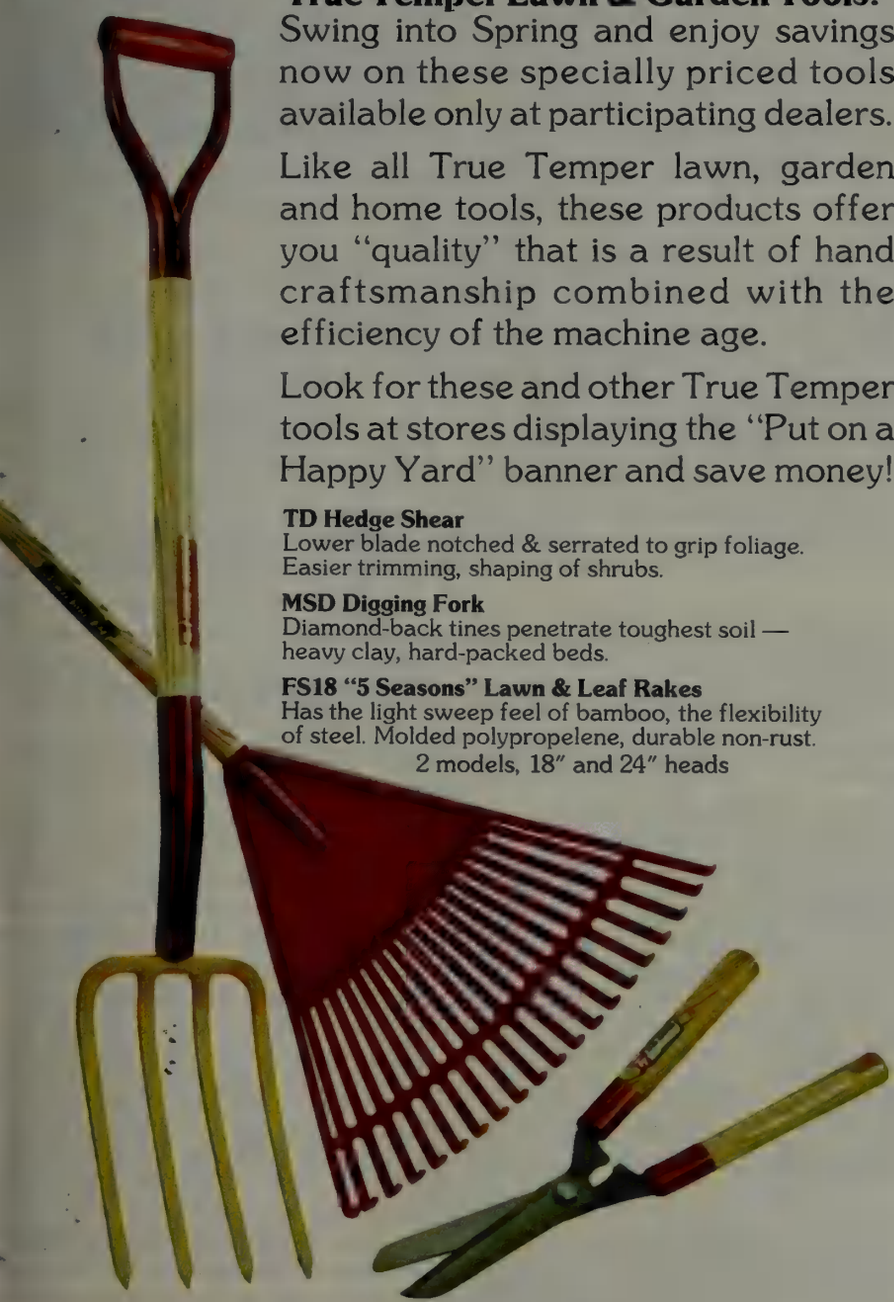

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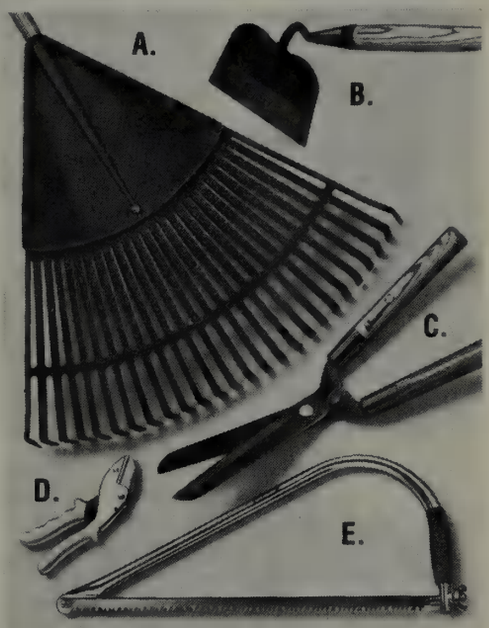

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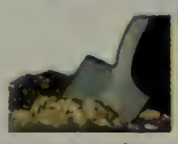

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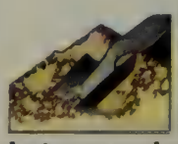

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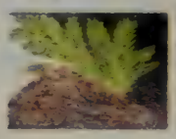
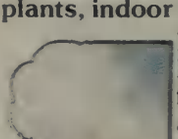


Redwood. For its extraordinary durability and resistance to weathering. (Note: only sawmill residual is used.



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STEVE W. MARLEY

Ripe beans *hang down inside swing set converted to pole-bean frame*

Trellis is the old swing set

An innovative and practical use for swing set your children have outgrow is to convert it into a simple trellis fo vining plants. The Schnieber family o Danville, California had one on thei hands and they now grow two kinds o pole beans on its frame.

They made only two modifications. Fir they removed the swings. Then, to ad room to accommodate bean pickers a harvest time, they broadened the ape by U-bolting a rectangular frame o wood and pipe onto it. To give the bean something to climb, 25 jute strings (nylo is too smooth) are stretched from eac side of the frame to ground stakes belov Strings were also wrapped around th swing set legs for the vines on the end

The Schniebers grew 'New Purple Poc beans on one side of the frame an 'Kentucky Wonder' on the other. The planted 50 seeds of each at the bottor of furrows 8 inches deep. As the seed lings grew, the furrows were graduall mulched to the top with shaving shredded leaves, and weeds in order t conserve water.

When plants reached about a foot, the were trained around the strings counte clockwise, two vines per string. Plan were deep-watered every week or tw and fed twice. The Schniebers lengtl ened their harvest by picking the bear as they ripened.

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DAVID STU

Dwarf pink *Pixie Delight carnations bloom in five months from seed*

Carnations from seed . . . easy

It's easy and inexpensive to raise carn tions from seed—and you may even g a bonus in plant health and sturdines Newer seed-grown strains produ bushy, vigorous plants with short, hea stems that hold flowers firmly erect. Ar best of all, the carnation fragrance st comes through—strong, clean, ar clove scented.

The strain called Fragrance gives rich scented double flowers in shades of re rose, pink, and white. Plants grow to 1 to 14 inches, branching freely from th base to make attractive mounds of blu gray foliage. A new group of F_1 hybr carnations includes Kiriba and Pixie D light strains and the bright scarl 'Juliet,' a 1975 All-America selectio these resemble Fragrance but are mo fully double.

Taller strains (20 to 24 inches) are Ch baud Giant, Enfant de Nice, and Gren din. These and the more dwarf kinds a short-lived perennials grown as annua where winters are cold. Seeds spro best between 55° and 65°; sow indoo or in a sheltered place outdoors in po or flats. Use a sterilized soil mix ar cover seeds thinly.

Transplant seedlings to nursery beds flats as soon as they have developed tw pairs of true leaves; space plants 4 to inches apart. When plants are 3 to inches tall, transplant to permanent loc tions. Give them well-drained soil in fu sun; pinch tips of newly-set-out plan to force side branching.

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Enclosed patio "jungle" *grew from cuttings, collected natives, and dime-store bargains. Honeysuckle and grapes twine round roof beams; Asparagus sprengeri, wandering Jew, ferns, and epiphyllum cascade from hanging containers. Half-barrel nestled at right holds water plants and recirculating pump for a fountain*

Green patio jungle . . . 18 months from scratch

A year and a half ago, Louis Mencarelli of Redwood City, California, went to work on a barren concrete slab surrounded by a 6-foot wooden fence and turned it into the lush patio you see here. Plants and materials were easy to come by, and either inexpensive or free. Mr. Mencarelli used 4 cubic feet of coarse redwood bark and eight large redwood rounds to cover the concrete's harsh glare. These materials also gave him a deep, reddish brown mulch and natural noise muffler. Overhead fiberglass protects the mulch from sunlight so it never bleaches gray as such mulches normally do.

Next he covered the fence with greenery, most of which started as free cuttings or divisions from friends. There are *Asparagus sprengeri,* caladium, cannas, coleus, epiphyllum; many kinds of fuchsias, ivy geraniums, hibiscus, hydrangeas, Japanese iris, ivies, *Lotus berthelotii, Polygonum capitatum* (pink fleece); suckers from redwood trees, spider plant, and wandering Jews.

In addition to these plants, Mr. Mencarelli collected ferns, native mosses, and gnarled stumps and limbs. He also scrounged about for an old concrete sink, two wooden-barrel halves, and three recirculating pumps to use for three separate fountains installed for water plants. Some annual flowers were started from seeds; only a few slower-growing plants were purchased including an orange tree for fragrance.

Enclosing the entire area, Mr. Mencarelli constructed a framework of 2 by 4's and lath extending to the existing roof line; he then covered top and sides with translucent fiberglass. Grapes and honeysuckle, grown from cuttings directly in the soil, now trace leafy designs across the roof. Occasional pruning keeps them in bounds.

It took about 18 months for the greenhouse effect of the enclosed patio to take hold, and plants exploded into cascades of foliage so thick the fence is now scarcely visible. The owner's efforts gained him the light, sound, smell, and the fresh, moist feeling of a green jungle. In summer, an exhaust fan keeps heat from building up; in winter, the door of his plastic-enclosed greenhouse (far left) can be opened to let some heat into the entire area. □

DARROW M. WATT

Redwood bark *and rounds cover concrete slab. Box along fence holds ferns, pink fleece, geraniums, hydrangeas, succulents*

Pinch, pinch, and pinch again for giant blooms

For giant blooms, *fasten Exhibition or Spider mums to stakes, limit them to three stems, pinch out side branches and side buds, and shelter from autumn wind, rain, frost*

DON NORMARK

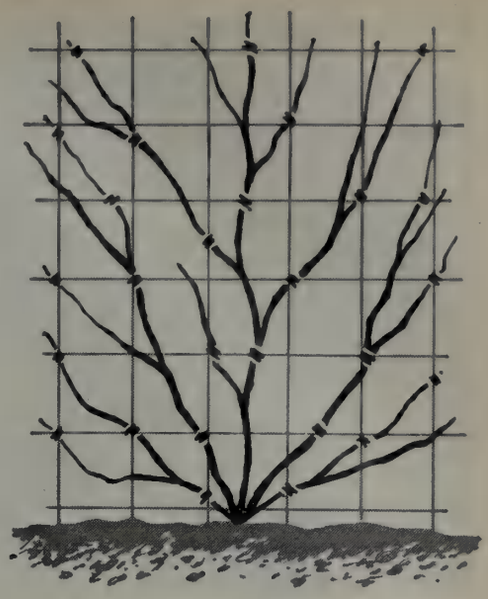
Blooms almost as big as your head?

Yes, or chrysanthemums almost as tall as your house. Here is how growers of super mums do it

The chrysanthemum flowers above almost as big as your head; the chrys themum plants on the right are as as the house. Nature—the heredity the plants—determined their flo color and form and, to a degree, limits on size; but nurture—feed watering, and training—pushed then their limits.

Casual gardeners attempt the spec ular by growing chrysanthemums three dozen top-heavy flowers o dozen stems, and their results usu collapse in the first heavy rain. But hard-working gardener can have imp sive plants like the ones shown h you can start them this month November bloom.

DAVID FENWICK



The secret way to grow a 14-foot tall mum

For huge plants *and big clouds of bloom, plant garden varieties of average flower size, feed and water heavily, and don't remove a single leaf, branch, or flower bud. Tie stems to trellis as shown above to get similar results*

To get the giant flowers

Buy young plants or rooted cuttings of Exhibition or Spider chrysanthemums. For sources of plants and for basic information on care, see pages 86 to 89 of the March 1976 *Sunset*.) Set the plants 18 inches apart in fast-draining soil that has been enriched and loosened with superphosphate, peat moss, and steer manure. Beside each plant drive a 2-inch-square, 6-foot-long wooden stake 18 inches into the ground.

When plants reach a foot in height, pinch out tips. A number of shoots will emerge below the pinch; save the three strongest that develop as flowering stems and tie these to the stakes as they grow. Pinch out side shoots as they form. Water and feed generously, and disbud to a single flower if you want the largest blooms possible.

Provide shelter against rain and wind. The structure at left above, at Col. James Reynolds's home in Tacoma, has a permanent roof of corrugated fiberglass and side walls that can be attached as plants mature and storms approach in fall—but a lighter structure would also suffice.

A wall of chrysanthemums

Many hobbyists and nearly all commercial growers use the techniques just mentioned, but few attempt to grow plants like those pictured above. They cover Ron Thompson's garage wall in Santa Clara, California. (His biggest plant is not in this display; that honor belongs to one that grew on a 4-by-4 post and became 11 feet tall and 6½ feet across at the top.

Mr. Thompson calls the ones you see total chrysanthemums; they get no pruning, pinching, or disbudding. The fast-growing garden mums of average flower size are best suited to this kind of care—not the huge-flowered kinds nor the dense cushion or bonsai varieties.

Heavy feeding and watering lie behind Mr. Thompson's success. On March 1 and again on April 1 he gives each plant 2 gallons of complete liquid fertilizer diluted according to label instructions. Since plants can absorb nutrition through their leaves (foliar feeding) as well as their roots, he wets both plant and soil. Then on May 1 and June 1 he applies 3 gallons to plant and soil, wetting a circle about 4 feet across. On July 1 and August 1, each plant gets 4 gallons on a 6-foot circle.

On August 25, September 15, October 1, and October 15, Mr. Thompson repeats the 4-gallon, 6-foot circle feeding. When flower buds appear he switches over to a no-nitrogen liquid fertilizer for three feedings at 15-day intervals; each feeding comes two days after a heavy watering. He gives other waterings every five days and ties plants to supporting trellises. Every irrigation is followed in about two days with a shallow cultivation for aeration and easier water penetration. □

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San Francisco. Five Tuesday morning lectures in the continuing series sponsored by the Strybing Arboretum Society. Place: Hall of Flowers, Ninth Ave. and Lincoln Way, Golden Gate Park. For details, telephone (415) 661-0822.

Woodside. Public tours of Filoli Gardens Tuesday through Saturday by reservation only. Sixteen acres of 50 to 60-year-old "gardens within a garden" on one of the great estates still intact in the West. For reservations and tour fee, telephone (415) 366-4640 or write to Filoli Tours, Canada Rd., Woodside 94062.

San Mateo. March 7. Arbor Day Planting Ceremony followed by a conducted tour of the San Mateo Arboretum, sponsored by the San Mateo Arboretum Society. Place: Arboretum, Pump House, Central Park (the Park extends from Fifth to Ninth avenues along El Camino Real). Time: 1:30. Free.

Petaluma. March 12 and 13. Flower show presented by the Petaluma Garden Club. Place: Kenilworth Recreation Center, Fairgrounds Dr. Hours: 1:30 to 7 Saturday; 10 to 5 Sunday. Free.

Diamond Springs. March 17. Daffodil tea presented by the Golden Land Home and Garden Club. Place: Mother Lode Lions Hall, Missouri Flat Rd. and Pleasant Valley Rd. (old Highway 49). Hours: 1 to 3. Donation.

Livermore. March 19 and 20. Annual plant sale plus country store at St. Michael's School, 372 Maple St. Hours: 9 to 4 Saturday; 9 to 2 Sunday.

Oakland. March 19 and 20. Show of early-blooming rhododendrons by the California chapter, American Rhododendron Society. Place: Lakeside Park Garden Center, 666 Bellevue Ave. Hours: 1 to 4:30 Saturday; 10 to 4:30 Sunday. Free.

San Francisco. March 19 and 20. Hana Matsuri (flower festival) presented by Ikebana International. Place: Hall of Flowers, Golden Gate Park. Hours: 10 to 5 both days. Admission: $1.50.

Vallejo. March 19 and 20. Exhibit by the North Bay Bonsai Club. Place: D Foley Park. Hours: noon to 6 Saturd 11 to 5 Sunday. Free.

Graton. March 22 and 23. Flower sh and plant sale presented by the Grat Community Club. Place: Clubhou Main and N. Edison streets. Hours: to 9 Tuesday; 10 to 4 Wednesday. Th is no charge for the flower show.

Inverness. March 23. Primrose Tea a plant sale presented by the Invern Garden Club. Place: Inverness Ya Club, Sir Francis Drake Blvd. Hou 12:30 to 3:30. Donation: $1.

San Jose. March 24 and 25. Santa Cl Valley Orchid Society show. Pla Wells Fargo Bank, Market and San F nando streets. Hours: 10 to 8 Thursd 10 to 6 Friday. Free.

San Francisco. March 26. Dahlia Soci of California root sale. Place: Hall Flowers, Golden Gate Park. Hours: to 4. Roots, 50 cents each; 12 for $5

Fortuna. March 26 and 27. Third nual daffodil show of the Fortuna G den Club. Place: Clubhouse, Sixth a Main streets. Hours: 1 to 6 Saturd noon to 5 Sunday. Free.

Palo Alto. March 26 and 27. Suiseki hibit by Kashu Suiseki Kai. Place: B dhist Temple, 2751 Louis Rd. Hou noon to 9 Saturday; 10 to 6 Sund Donation.

Redwood City. March 26 and 27. A nual show by the San Mateo Cou African Violet Society. Place: How Johnson's, Bayshore Freeway and Wh ple Ave. Hours: 2 to 8 Saturday; 10 4:30 Sunday. Free.

Sacramento. March 26 and 27. Ann show by the Sacramento Orchid Socie Place: Country Club Centre, Watt a El Camino avenues. Hours: noon t Saturday; 11 to 5 Sunday. Free.

San Leandro. March 26 and 27. R sale by the San Leandro Dahlia Socie Place: parking lot next to Dahlia G den, Root Park, Toler and E. 1 streets. Hours: 10 to 3:30 both days.

Would you like us to publicize a garden show or special event to be sponsored by your garden club? For a fact sheet, write to Garden Events Editor, *Sunset Magazine*, Menlo Park, California 94025.

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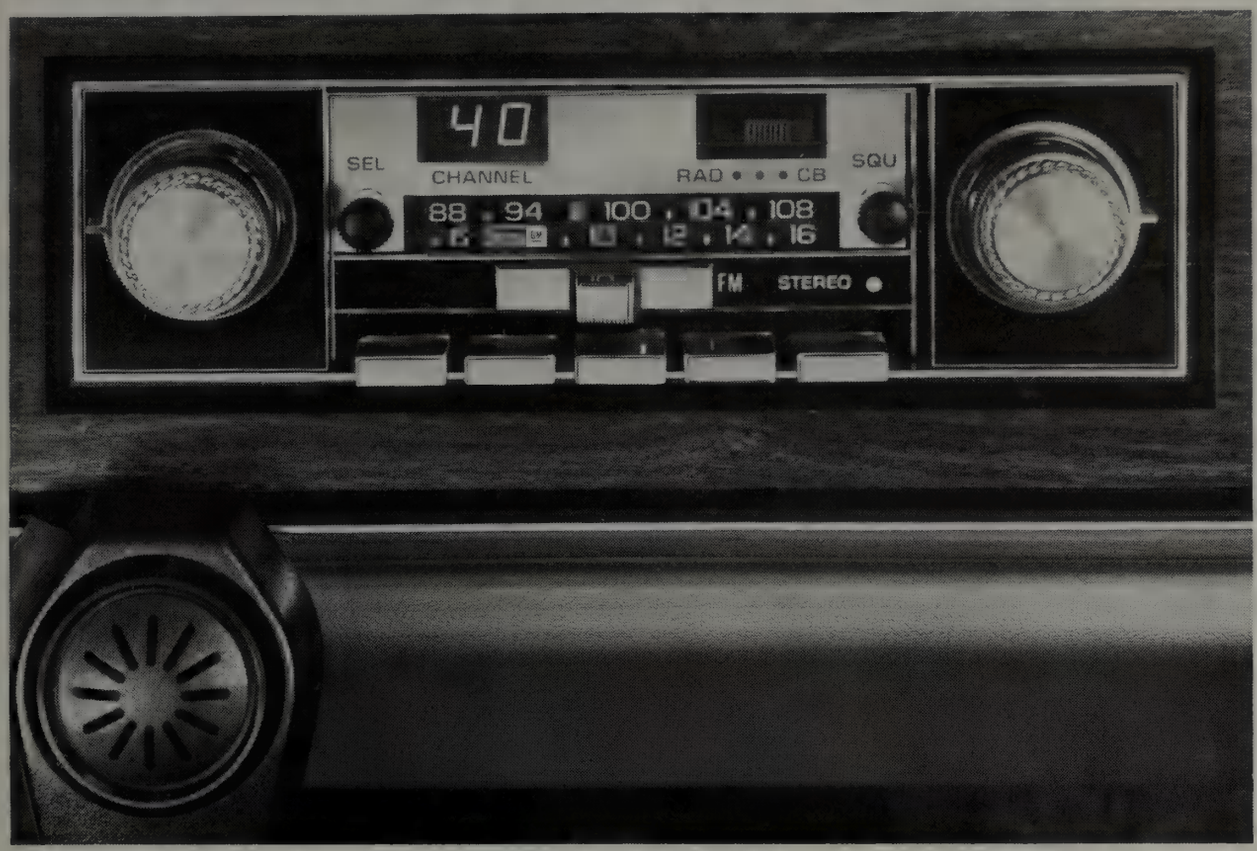

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Shopping search for perennials, rock plants. This list of 86 includes both easy-to-finds and rarities

It's the variety of plants in Chris Rosmini's garden on pages 90 through 93 that keeps it interesting. Something's always happening; plants come in and out of bloom, grow, go dormant.

Following are 86 perennial and rock plants—a varied enough list to include both easy and hard-to-find plants—chosen because they're good looking and easy to grow.

This list is particularly valuable to Southern California gardeners since it's based on first-hand experience and much experimentation in a Los Angeles garden. If you have doubts about a plant's adaptability outside Southern California, check the *Sunset Western Garden Book* for recommended climate zones.

After each plant name, you'll find this symbol: ○ means it's best in full sun; ● means it's best in part shade or full shade; **R** means it's rare in California (check the nurseries listed on page 230). If there isn't an **R**, the plant is relatively easy to find at California nurseries; Northwest nurseries often sell more kinds than California offers.

Ten tall perennials

Areas planted with perennials usually have the tallest in back and the lowest in front, but you can also plant them in islandlike areas with the tallest in the center. Here are 10 that grow to 3 feet or taller:

Japanese anemone (*Anemone hupehensis japonica*) ●. Stems grow 2 to 4 feet high, topped with graceful white or rose flowers in August and September.

Columbine (*Aquilegia*) ○ ●. Nodding flowers in many colors from March through June. McKana's Giants are the favorite in the Rosmini garden.

Michaelmas daisy (hybrids of *Aster novae-angliae* and *A. novi-belgii*) ○ **R**. Grows gracefully to 3 or 4 feet tall, in shades of pink, almost red, and blue. Blooms in fall when almost nothing else does.

Valerian (*Centranthus ruber*) ○ **R**. The common magenta red isn't as pleasant as the white-flowered 'Albus.' Blooms almost year-round if you cut flower stalks to ground. An over-the-fence gift plant.

Shasta daisy (*Chrysanthemum maximum*) ○. Big white daisies in early summer help calm down other colors in the garden.

Delphinium ○. Tall spires in shades of blue and white. Connecticut Yankee strain is bushier and easier to grow than the more common Pacific strain.

Foxglove (*Digitalis purpurea*) ○ ●. Tall spikes of spotted, usually purplish, tubular flowers. Blooms May through September.

Eupatorium coelestinum ● **R**. Open and sparsely branched with purplish foliage and big ageratumlike flowers in April.

Geranium palmatum (*G. anemonifolium, G. madeirense*) ● **R**. Big divided leaves topped with a massive 4-foot-tall lavender-pink flower cluster in spring.

Tall bearded iris ○. Comes in many colors; many kinds bloom twice a year in Southern California (spring and fall).

Twenty mid-size perennials

Most of the perennials in a border are mid-size, a catchall for plants between 1 and 3 feet:

Artemisia ○. Several—including *A. frigida, A. schmidtiana,* and *A. stelleriana*—valued for their silvery gray foliage.

Aster frikartii ○ **R**. Bushy, with masses of lavender to violet-blue daisies from May to September.

Asteriscus sericeus (*Odontospermum sericeum*) ○ **R**. Silvery leaves with stumpy little yellow daisies set right into the foliage mass.

Campanula rapunculoides ○ **R**. Eighteen-inch-tall (or taller) spikes of violet-blue bellflowers in early summer. Spreads and can be quite invasive.

Bush morning glory (*Convolvulus cneorum*) ○. Silky, silvery leaves and white flowers. Blooms in April, then off and on all summer.

Coreopsis ○. Many kinds in many heights (from 1 to 4 feet). Mid-size kinds don't flop over, bloom just as well as the bigger kinds.

Leopard plant (*Farfugium japonicum*) ○ **R**. Ten-inch, kidney-shaped leaves for drama in the shade.

Francoa ramosa ● **R**. Big spinachy leaves and tall stems with white or pink flowers in August and September.

Transvaal daisy (*Gerbera jamesonii*) ○. Big, low clumps with 4-inch daisies in flaming yellow, orange, and red. Single-flowered kinds sturdiest.

Geum chiloense ○ **R**. Brilliant flowers on top of long 2½-foot stems in April. 'Fire Opal' has scarlet-orange flowers.

Daylily (*Hemerocallis*) ○. Delicate clumps of foliage, lilylike flowers. The best you must order through the mail, but there's nothing wrong with the plain yellow at nurseries. Dwarfer kinds are tidier plants in the garden.

Coral bells (*Heuchera*) ● ○. Basal clumps of round leaves and tall sprays of delicate white or red flowers in March and April. Chris Rosmini's favorite is *H. maxima*, **R**, a California native.

Lavender (*Lavandula*) ○. *L. dentata* and other lavenders add gray foliage and long-lasting lavender flowers in spring and summer.

Mexican evening primrose (*Oenothera speciosa childsii*) ○ **R**. Shimmering rose pink flowers in summer. Cut stems to ground when flowers fade. Spreads.

Scented geranium (*Pelargonium*) ○. Several, including nutmeg (*P. fragrans*) and lime (*P. nervosum*), make tidy flowering bushlets. They smell good too.

Border penstemon (*P. gloxinioides*) ○. About 2½ feet tall; almost all colors but blue and yellow. Tubular flowers on tall spikes come all summer if you cut them back after bloom.

Physostegia virginiana ○ **R**. Clumps of leaves with 2½-foot spikes of rosy purple (or white) flowers in August.

Rehmannia angulata ● **R**. Looks a lot like foxglove with pink or white flowers on 2-foot spires in March and April. Basal clumps of foliage spread a little.

Yellow flax (*Reinwardtia indica*) ○ ● **R**. Bright yellow flowers liven up the mid-winter garden. Spreads slowly.

Tulbaghia ○ **R**. Clumps of narrow, strap-shaped leaves and 2-foot stems topped with pinkish flowers. *T. fragrans* blooms in winter, *T. violacea* in spring.

Twenty front-row perennials

You can use these small plants up front in a perennial garden, or as fillers between slightly taller ones. Some are commonplace that they're sold by the flat for large-scale ground covering. In the perennial garden, they take on new significance used in much smaller areas.

Yarrow (*Achillea*) ○ **R**. There are several smallish ones, including *A. taygetea* with pale yellow flat-headed flowers on 18-inch stems, April to June.

Agapanthus ○. Bulbous-looking plants with 18-inch flower heads. Dwarf kinds go in front row: 'Peter Pan' has blue flowers, taller and coarser 'Dwarf White' has white flowers.

Carpet bugle (*Ajuga reptans*) ○ ●. Handsome, dark green, sometimes bronze leaves and dark blue 6-inch flower spikes in spring.

Chives (*Allium schoenoprasum*) ○. Bulbous, with grassy leaves, pink flowers in spring.

Basket-of-gold (*Alyssum saxatile*) ○. Golden yellow flowers, grayish leaves. Variety 'Luteum' has paler, lemon yellow

It likes full sun? Look for ○. Likes shade? ● Hard to find? Only if the list shows R

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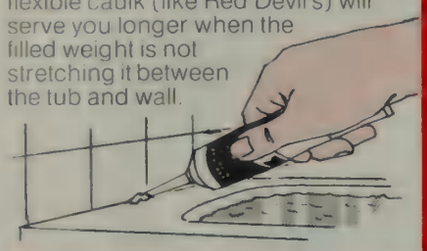
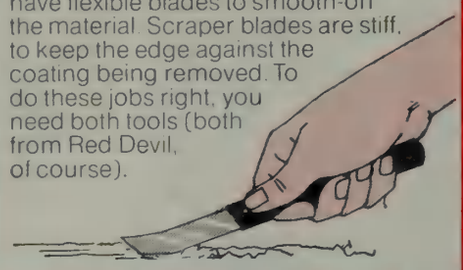
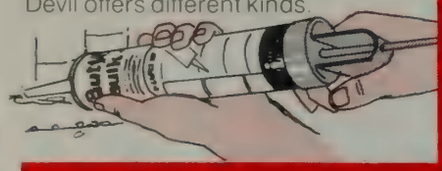


A putty knife is not a scraper. And vice versa. Putty knives (for spackling walls and puttying windows) have flexible blades to smooth-on the material. Scraper blades are stiff, to keep the edge against the coating being removed. To do these jobs right, you need both tools (both from Red Devil, of course).

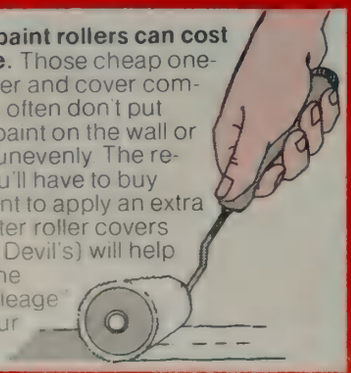


Caulk is caulk is caulk? Wrong! Latex or acrylic latex caulk provide excellent durability (especially when painted) and easy clean-up for most uses, but you'll need butyl caulk for the water resistance required at or below ground level. Different caulks for different jobs, that's why Red Devil offers different kinds.



Bag your paint brush. Don't throw away the plastic cover when you buy a new paint brush. It'll keep the brush dust-free and in perfect shape between uses. Red Devil brushes come with re-sealable covers for just that reason.

Bargain paint rollers can cost you more. Those cheap one-piece roller and cover combinations often don't put enough paint on the wall or put it on unevenly. The results? You'll have to buy more paint to apply an extra coat. Better roller covers (like Red Devil's) will help you get the most mileage out of your paint.



Stud finders are un-holey. When hanging pictures on a freshly painted or papered wall, don't fill it with holes before you find the wood behind it. Use a Red Devil Stud Finder. It points out where nails are—and where there are nails, there are studs.

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flowers that give a less brassy effect.

Bergenia crassifolia ○ ●. Eight-inch oval leaves and pink flowers on 20-inch stems in winter.

Campanula isophylla ○ ●. White or blue flowers in late summer and fall; can trail 2 feet over a wall.

Small plants for front and center

Campanula poscharskyana ○. Six inches tall, spreads, and has blue bellflowers in early summer.

Snow-in-summer (*Cerastium tomentosum*) ○. Valued mainly for its gray leaves.

Convolvulus mauritanicus ○ **R**. Spreading (or cascading), with tiny blue morning glory flowers in April.

Pink (*Dianthus*) ○. Among the many pinks that work in the front row are *D. deltoides, D. gratianopolitanus,* and *D. plumarius.* Most have gray-green foliage, flowers in shades of pink, rose, and red.

Beach aster (*Erigeron glaucus*) ○ **R**. Pale lavender daisies appear off and on all year. Can spill over a wall.

Erigeron karvinskianus ○ **R**. Tumbling, graceful, with delicate pink and white daisies most of the year.

Geranium macrorrhizum ○ **R**. Maple-like leaves, 12 to 15 inches tall, pink flowers April through June.

Candytuft (*Iberis sempervirens*) ○. The whitest of white flowers in March and April.

Statice (*Limonium perezii*) ○. Low clump of large leaves, tall spikes of dark blue and white flowers most of year.

Lotus berthelotii ○. Cascade of silvery foliage. Scarlet flowers in June and July.

Penstemon ○ **R**. Two are highly recommended: *P. barbatus* 'Elfin Pink' with pink flowers on 10-inch spikes, and *P.* 'Prairie Dusk' with soft purple flowers on 20-inch spikes.

Polygonum capitatum ○. Reddish leaves, pink flower puffballs most of year. Spreads.

Spring cinquefoil (*Potentilla verna*) ○. Dark green, strawberrylike leaves, yellow buttercups in spring. Spreads.

The rock plants . . . 11 defy classification

The following are also perennials, but they're small enough—or so fussy about overwatering—that they're grown in a rock garden. Some actually fit no fixed category; woody-stemmed kinds are really shrublets.

Aethionema 'Warley Rose,' ○ **R**. Looks like a bright pink alyssum in early April. Stiff little gray leaves.

Blue fescue (*Festuca ovina* 'Glauca') ○. Single plants make beautiful little clumps of blue-gray grass.

Geranium sanguineum 'Prostratum' (*G. lancastriense*) ○ **R**. Finely cut leaves and pale pink flowers, April through July. Spreads slightly.

Geum 'Borisii' ○ **R**. Big (for a rock plant) 3-inch leaves and orange flowers so brilliant they look bigger than they are. Likes it moister than most.

Sunrose (*Helianthemum*) ○. Leathery

le leaves and lots of bright flowers in ıdes of white, pink, red, apricot, orange, l yellow in spring and summer. ey'll grow from seed, but named kinds om better.

pericum coris ○ **R**. A miniature of the nmon ground-covering hypericum. preading mound with bright yellow wers May through June.

hodora diffusa (*Lithospermum prostum*) ○ **R**. Shrubby; bright turquoise e flowers in April are as good as gentian's.

ıstemon rupicola ○ **R**. Little 4-inch-high ıstemon with rose-colored flowers. bus' has white flowers.

lox bifida ○ **R**. Floppy shrublet with e blue flowers in April.

toria calabrica ○ **R**. Spreading, shrubby, h dark green leaves and light pink wers in May and June.

yrinchum ○ ● **R**. Two bulbous-looking lifornia natives: *S. bellum* has blue wers, likes it dry; *S. californicum* has low flowers, likes it moist, in part shade.

n are little domes

ıese rock plants grow into groundgging domes—a classic rock plant ape:

yssum sibiricum ○ **R**. Hard little gray ves, wide spreading with open clusters white flowers in April.

uilegia flabellata pumila ○ **R**. Tiny nch columbine with dark purple to pale e flowers in June.

rift (*Armeria*) ○. Dense domes of bright en, needlelike leaves with pretty pink wers on sturdy stems. *A maritima* is d by the flat. *A. juncea* (*A. setacea*), miniature, is rarer.

ık (*Dianthus*) ○. Many are small enough the rock garden. You can grow them m seed or buy named kinds. Blue-green l gray-green foliage; a profusion of icate flowers in pink, red, and white.

ane's bill (*Erodium chamaedryoides*) **R**. Sold as a ground cover, it makes a k green dome when planted singly. ıite, rosy veined flowers all summer.

ɔsimum kotschyanum ○. Light green mps with deep yellow flowers, April ough June.

ranium dalmaticum ○ **R**. Tiny, lobed ves turn reddish in winter. Covered h pink or white flowers in May.

nonium psilocladon. ○ **R**. A dwarf tice with oval leaves, delicate sprays tiny, tiny white flowers in summer.

trorhagia saxifraga (*Tunica saxifraga*) **R**. Needlelike foliage with baby's eath - like sprays of pink flowers, May ough October.

ucrium subspinosum ○ **R**. A little vel with bare gray stems that give it ny look. Pink flowers in June.

fteen carpeting kinds

ıis last group of rock plants are miniare ground covers:

rrow (*Achillea*) ○. Many are small ough for the rock garden, including

On page 230, ground cover and rarities

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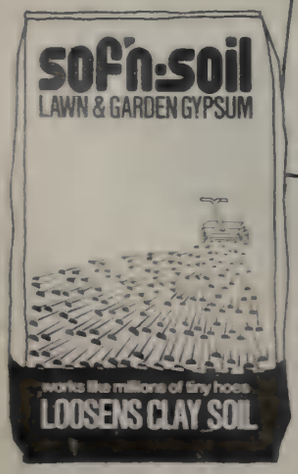

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Aubrieta deltoidea ○ **R**. Mat of gray-green leaves covered in early spring with flowers, mostly in shades of lavender, purple, and blue. Easy from seed.

Campanula cochleariifolia (*C. pusilla*) ○ **R**. Blue bellflowers in June. Looks frail, but can almost become a weed.

Frankenia thymifolia ○ **R**. Thyme-like with bright pink flowers in July.

Globularia cordifolia ○ **R**. Little paddle-shaped leaves in rosettes with 2-inch blue ball-shaped flower heads in July.

Hypericum cerastioides (*H. rhodopeum*) ○ **R**. Gray foliage, pale yellow flowers in June and July.

Mentha requienii ○ **R**. Grows about as flat as possible. Tiny leaves with a fresh minty scent, even tinier light purple flowers in summer.

Potentilla nevadensis ○ **R**. Small version of the common potentilla with pretty yellow flowers in April.

Sedum dasyphyllum ○. Tiny succulent leaves and tiny white flowers in July and August.

Woolly thyme (*Thymus lanuginosus*) ○. Woolly gray-green mats, few flowers.

Mother-of-thyme (*Thymus serpyllum*) ○. Aromatic mats of pink flowers in June.

Veronica pectinata ○ **R**. Grayish foliage and lots of deep blue, white-centered flowers in June.

Veronica repens ○ **R**. Mossy-looking mats with little blue flower spikes in May.

Australian violet (*Viola hederacea*) ○ ● **R**. Tiny white and violet flowers almost all year. Spreads like dichondra and resembles it slightly. Blooms best with some sun.

Viola labradorica ○ **R**. Bronzy purple leaves, deep purple flowers.

Hunting down the rare ones

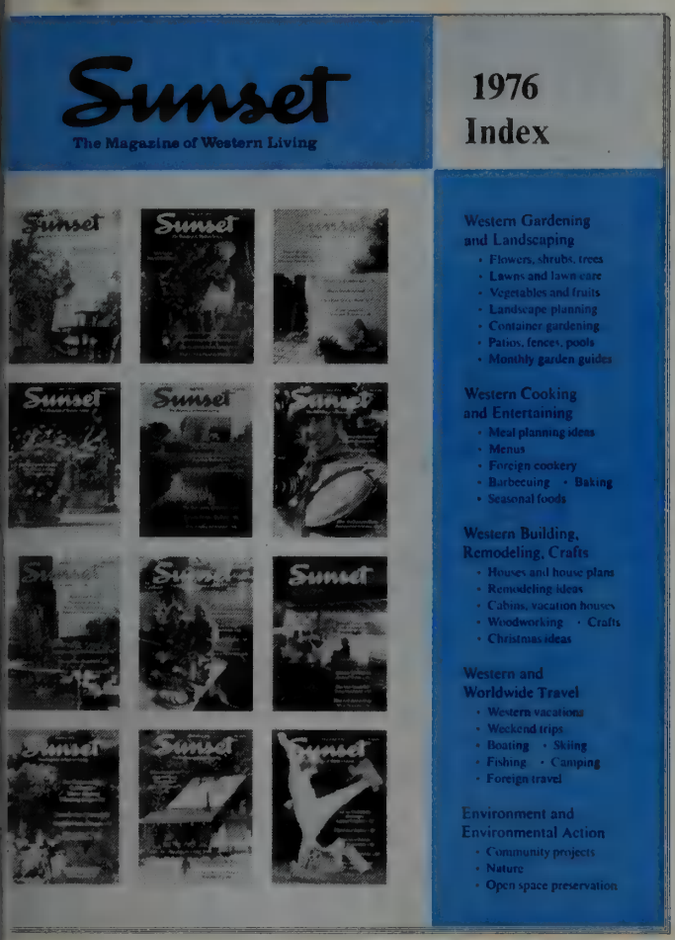
You won't find all the makings of a perennial or rock garden in general nurseries, so here are seven retail nurseries in California that specialize in the rarer perennials and rock plants: Alpine Nursery, 108 Meidl Ave., Watsonville; Berkeley Horticultural Nursery, 1310 McGee Ave., Berkeley; Burkard Nurseries, Inc., 690 N. Orange Grove Blvd., Pasadena; Turk Hessellund, Inc., 1255 Coast Village Rd., Santa Barbara; Carman's Nursery, 16201 Mozart Ave., Los Gatos; Western Hills Nursery, 16250 Coleman Valley Rd., Occidental; Manning's Heather Farm, 12450 Fiori Lane, Sebastopol.

Nurseries in the Northwest sell a wide variety of perennials and rock plants between March and August.

There are also five mail-order nurseries (one in California) specializing in these plants: Alpenglow Gardens, 13328 King George Highway, Surrey, British Columbia, Canada (catalog costs 35 cents); Greenwood Nursery, 4 Pilot Rd., Box 643, Carmel Valley, Calif. 93924; Lamb Nurseries, E. 101 Sharp Ave., Spokane 99202; Siskiyou Rare Plant Nursery, 522 Franquette St., Medford, Ore. 97501 (catalog costs 50 cents); The Wild Garden, Box 487, Bothell, Wash. 98011 (catalog costs $1).

1976 *Sunset* Index

Order Now



The new 1976 Sunset Index increases your enjoyment of Western Living — you'll be amazed at the extra service you get from your Sunsets. Each listing gives you the specific issue and page number needed to find any idea.

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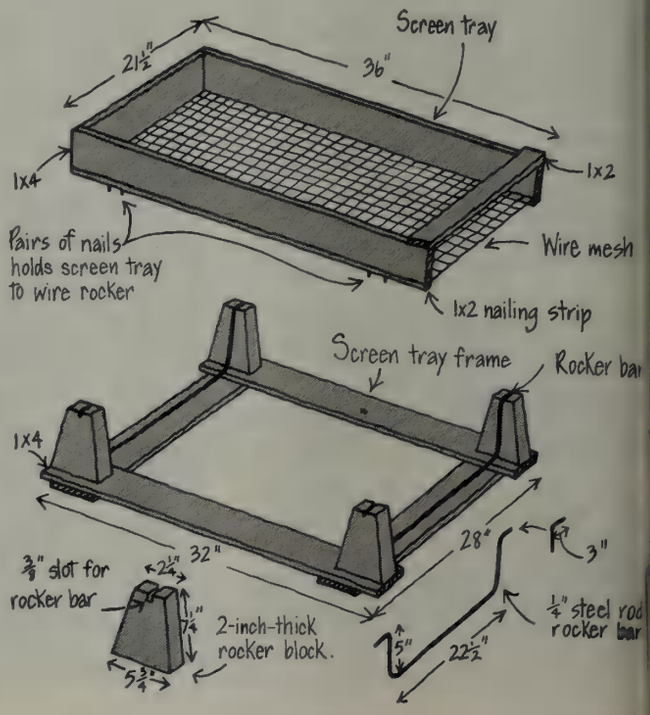
DAVID STUBBS

Side-to-side rocking *does the job. Note that the frame holding the tray can slide back and forth over center bin*

You can lift off *and reverse the screening tray anytime you want to. For construction details of tray and frame, see drawings below*



What the serious compost maker needs is a good sifter

Casual gardeners just let their compost heaps sit and molder; dedicated gardeners speed the composting process by turning, chopping, watering, and feeding them. Either way, the last step is sifting —separating usable compost from trash.

Here is a homemade sifter devised by inventive members of the Oakland Businessmen's Garden Club.

It operates over the center bin of a three-bin complex. The tray rocks on ¼-inch-diameter metal rods suspended from wood blocks on a frame.

In addition, this frame slides from front to rear above the center bin to distribute sifted compost evenly. The bin is tall enough that compost can be sifted directly into a wheelbarrow.

Coarse raw material from the garden goes into one of the side bins—the collecting bin. Partially broken down ma terial from this bin joins soft and easil composted material (dead leaves, veg table kitchen wastes) in the other side- the working bin.

As composting proceeds and finishe compost is needed, you place sever shovelfuls from the working bin into th sifter tray and rock it vigorously fro side to side. Whatever passes throug the ½-inch mesh will be ready to us alone or mixed with other ingredient Coarse plant material is pushed off a side bin for further breaking down.

Using the compost. You can use th finished compost straight as a pottin medium for ferns and shade-lovin plants. Mix it with good garden soil f sturdy, easy-to-grow container plant Apply a thick layer (3 to 6 inches) garden beds and spade it in well befo sowing seeds or setting out beddin plants. Or blend the compost with to soil and use it to fill in around trees shrubs at planting time.

Guard your pool with a little Sentry® from Pennswim

Your pool is for pleasure. But where's the pleasure when the pool goes cloudy, and unpleasant looking? That's where Sentry comes in. Sentry's job is to restore your pool, keep it looking and smelling clean, free of bacteria.

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The name to look for in dry cleaning.

Salvage *over-mature green beans—any kind—by shelling. Separate moist from dry ones; use for soup, casseroles*

Green beans can also be shelley beans

Most gardeners harvest their green beans at the snap (edible pod) stage. But if you leave any green bean unpicked awhile longer—deliberately or by accident—the fully expanded seeds are still tasty and nutritious, and they have a new, richer flavor. Southerners call these mature beans shelleys. Use them fresh, or freeze or dry them, as you would baby limas.

On page 208 you can see some of the kinds of beans that you can plant this spring to use as shelleys if you like. The top two rows can actually be harvested either at the snap stage or as shelleys. The lower two rows are almost always used shelled. Olive Cordill of Sebastopol, California, grows three to four dozen kinds every year. Here are her comments on the 13 shown in color.

'Romano.' Earliest pole bean to mature in Mrs. Cordill's mild climate. An excellent all-around bean.

'Oregon Blue Lake.' Both bush and pole types have excellent flavor. Early bearing and resistant to diseases.

'Kentucky Wonder.' Excellent as a shelley or dried. Easy to shell in all stages. Although many prefer the looks of the white-seeded type, Mrs. Cordill prefers the flavor of brown-seeded 'Old Homestead' (many catalogs specify which they carry).

'Cranberry' or 'Mammoth Horticultural' beans: Like all beans known as horticultural or flageolet beans, they're somewhat coarse as a green bean and mature very rapidly to the shelley stage.

'Blue Peter' or 'Royalty.' Good when green, shelled, or dried. 'Blue Peter' is flatter, longer, and straighter but difficult to find.

'Oregon Giant' or 'Paul Bunyan.' A large, fast grower and long producer. Green beans stay tender even when quite large, but turn a bit grayish when cooked. Many people love 'Oregon Giant' for its size and vigor; Mrs. Cordill finds it a bit coarse.

'King of the Garden' lima. A good producer once started, but like all limas it needs a lot of heat and is slow to come into bearing in mild climates. As good in flavor as any lima.

Butterbean. Known as baby limas to most Westerners. Very sweet, very prolific.

'Dixie' speckled butterpea or bean. Very productive short vine only about 6 inches tall. Milder than a lima bean.

DARROW M. W

Black-eyed pea. Looks, tastes, and grows like a bean. Slow to mature, hard to shell Southerners use very young green pods li snap beans. Mrs. Cordill finds 'Queen Anne' most prolific.

'Kim' or 'Giant Green' soybean. Bigger a more prolific plants than any soybean sh has tried. Excellent flavor, seeds unusuall large, pods easier than most to shell (pou boiling water over pods of any soybean t soften them before shelling).

'Aketa' soybean. A yellow type that was her favorite until she discovered 'Kim.'

Black soybean. Not as prolific as other soybeans, but the flavor is as distinctive as the color.

Most mail-order seed catalogs offer to 40 varieties of beans. The people Vermont Bean Seed Company offe bean bonanza: about 90 kinds, most available from other standard sour For a free catalog, write to them Ways Lane, Manchester Center, 05255. They include a recipe for e kind of bean ordered.

At harvest time this summer

Shelling beans is easy whether pods limp or brittle. Firm, green pods harder to remove, but you may like fresher flavor of younger beans.

Cook fresh shelleys until tender (5 to minutes) then serve them with but salt, and pepper. Or add them to hea soups or casseroles, or marinate for ads. To preserve fresh beans, freeze can them in a pressure cooker follow directions for lima beans.

To dry beans for storage or to get se for next year's crop, allow pods to come brittle-dry on the plant bef shelling, freeze seeds several days to any insects, and store when thoroug dry in an insect and rodent - proof c tainer. Seeds stay viable for four five years.

Once you allow beans to mature, pla gradually stop producing. To h enough of both green and shelley bea you may want to plant more initially plant in succession.

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Taking action on Oriental greens

If you'd like to grow some of the O ental greens pictured on page 103, important thing to remember is that are cool-weather crops. In Southern C ifornia, the desert, and the Central V ley, this means the best sowing tim early spring or fall; in the Northw and mountain areas, sow as early spring as soil and weather allow.

But since many of the crops mature v quickly, and are quite tasty both bef market size and past it, you can c tinue to sow or transplant for succes crops late into spring, or even y round near the coast.

Sow seeds ¼ to ½ inch deep, 2 t inches apart, directly in the ground in containers for transplanting. W seedlings are 2 to 3 inches tall, tr plant or thin as indicated below. W and fertilize amply, and keep soil l and weed-free for fast, tender growt

Below we suggest when to harvest e crop for peak quality, usually w plants are smaller than those sold markets. Sample leaves and flower many stages to use the crop fully, to find out which stage you like b Even Orientals debate whether peak vor and tenderness come as the flower buds open, or slightly before

Broadleaf mustard. Thin or transplant young seedlings to 10 inches apart. Harv when loosely headed, 10 to 14 inches tall about 65 days from seed.

Chinese mustard greens. Harvest from 2 inches tall until tough or bitter; about 45 days to market size of 6 to 8 inches.

Yao choy (seeds sold as choy sum). Thin transplant to 6 inches apart; harvest whe 8 to 12 inches tall; about 60 days. Trim t central stalk and leaves (shown on page 103) or use as much as is tender. Only on prime shoot per plant.

Bok choy. Thin or transplant to 6 to 12 inches apart; harvest when loosely heade 10 to 12 inches tall; about 50 days.

Chinese cabbage. For both napa cabbage and Chinese green cabbage, thin or transplant seedlings to 12 to 15 inches ap When 5 to 8 inches tall, tie leaves loosely to help form heads. Harvest when firmly headed; about 80 days.

Chinese broccoli. Thin or transplant seedlings to 6 to 10 inches apart. Harvest central stalk and side shoots when 8 to 1 inches tall, or when flower buds just begi to form; about 70 days.

Seeds of Oriental vegetables are sold in some nurseries and markets. S lists are available from these two m order companies: Kitazawa Seed 356 W. Taylor St., San Jose 941 Tsang and Ma International, Box 2 Belmont, Calif. 94002.

Every Spring almost as soon as the days get a little warmer, you'll see the color coming back into your lawn and it will probably look nicer than it really is.

Your grass is now producing chlorophyll, which is where that color comes from. And this is when your soil needs all the help it can get — not just to make your grass greener, but to help thicken up your lawn with lots of new grass while the weather's fine for growing.

All this is hard work for a lawn.

How Turf Builder helps thicken your lawn with thousands of new grass plants.

Grass plants start new grasses growing around them by sending out tillers, rhizomes, or stolons which form new "branch" plants that send down roots of their own. It takes a lot of energy on your lawn's part and your soil alone just can't come up with enough nourishment to do the job right.

But about thirty minutes with your spreader and some Scotts® Turf Builder® will give your lawn the nourishment it needs. In fact, one feeding will help grow thousands of new grass plants in a few weeks. We've done it ourselves on different grasses (from bermuda to St. Augustine to bluegrass) on our grass research farms around the country.

Turf Builder gives grass a prolonged feeding because it holds some of its nitrogen back for later. We worked out a kind of timing process that releases this food slowly, so that it will work on those thin spots for up to two months.

And you might also like to know that this same slow feeding action also keeps Turf Builder from burning your lawn. All you have to do is follow the directions on the label. In fact you could accidentally put on four times too much this Spring and it still won't burn.

We put out a quarterly booklet called Lawn Care® that's filled with tips for lawns. It's free and you can get it just by writing us here in Marysville, Ohio 43040. You don't need a street address. We're the Scotts people and everybody in town knows where we are.

The Hawaiian Islands. They're on the escape route of more people these days. No wonder. People like you flee the routine to come here for as many reasons as there are waterfalls.

Sure, Hawaii is headquarters for the tan set. But if that's all it was all about, Hawaii would be just another place with ample supplies of sun and sand and balmy nights.

No, people flee here for other reasons. Like the fact that we might have just about the happiest people-mix on earth. Come here and you'll delight in the enchanting differences offered by the Pacific's cultural heritage — from Oriental to Polynesian and all the in-betweens. Each island is different. Each has its devotees. Even so, the islands all have one thing in common — and that's the conviviality known as the Aloha Spirit. It's here — alive and well.

Island by island. Maui was built by volcanoes and settled from Tahiti — about 750 A.D. Once it was a kingdom all by itself. And quaint little Lahaina Town was once the whaling capital of the Pacific. The Valley Isle is famous for its fabulous hotels, golf courses, beaches.

Molokai. The Friendly Isle. It's one scenic spot after another — without a lot of people between you and the view.

Lanai is famous for pineapples, hunting and fishing. It's a beachcombers' paradise, too.

For lush natural greenery, try Kaua Garden Isle. There's a tropical versio the Grand Canyon here. And you've heard the Hawaiian Wedding Song u you've heard it at the unforgettable Fern Grotto.

Oahu means the Gathering Place - that it is. Oahu is Honolulu, Waikiki, t life of luxury and excitement, day and

Hawaii is the name of the whole S and also one of the major islands. Bel or not, the Goddess of Fire lives here volcano. Beautiful waterfalls, beautif orchids, beautiful people.

The Hawaiian Islands, you can't fi better places to flee to. Anywhere. Ju ask your travel agent... he knows.

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Condominium Adventure, 8 days/ 7 nights Kauai or Maui, from $404.
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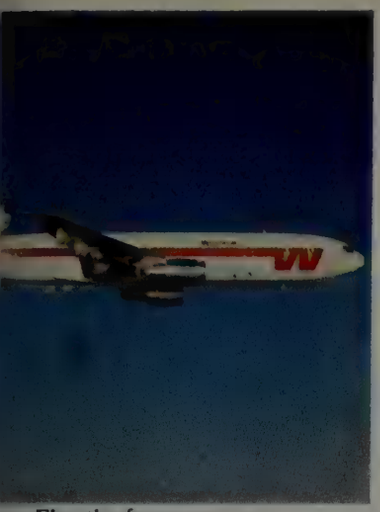

Flee the freeways

Flee the familiar

Flee the people

Flee the Forty-nine

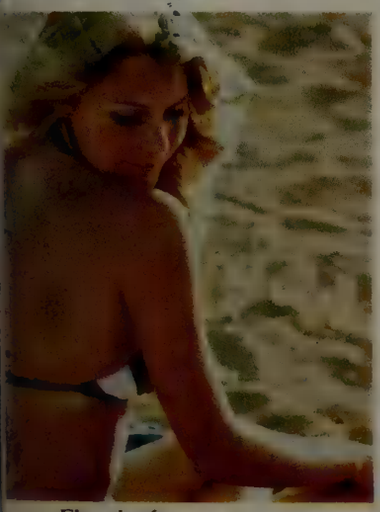
Flee for fun

Flee the humdrum

Flee the phone

Flee the reruns

Flee the formal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Flee the brrrrs

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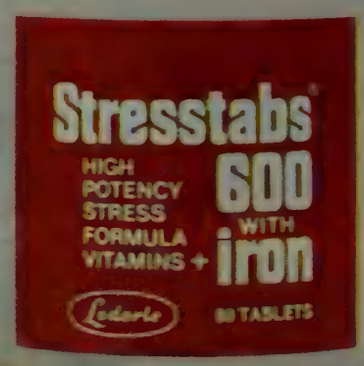

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Here are plants that are both drought tolerant and fire resistant

leners living at the edge of the chap- need to know one more thing be- they use the drought-tolerant plants l in the October 1976 *Sunset*. How do they resist fire?

lant is fireproof, but the right plants slow down a fire moving in from highly flammable native brush and n the threat to your house.

retardance depends on a lot of rs. Generally, the lower and more ulent a plant is, the less likely it is urn. Plants that tend to have many branches or leaves burn like good ling. Some plants have oils that e them highly flammable.

ing below is the list of the drought- ant plants from our October issue, each plant rated for its flammabil- Four-star plants are almost fireproof, -star plants less so, two-star even and one-star plants only slightly less mable than native brush.

't plant many one-star plants in a hazard area, and try to separate them three-star or four-star plantings.

letters HF mean the plant is highly mable and shouldn't be used in a etardant landscape. You'll notice all conifers flunked. For 11 drought- tant plants we have no data as yet on mability, and this is so noted.

e ratings come to us from work by the Los Angeles State and nty Arboretum. To get more infor- on, write to the arboretum, 301 N. lwin Ave., Arcadia 91006, for the booklet *Green Belts for Brush Fire ection and Soil Erosion Control in side Residential Areas.*

vering plants. There's only one four- plant in this group.

★ *Achillea*
★ *Aloe*
★ *Callistemon citrinus*
★ *Cassia artemisioides*
Centranthus ruber (no data)
★ *Cistus* (low-growing types)
★ *Convolvulus cneorum*
Coreopsis verticillata (no data)
HF *Cortaderia selloana*
Cotinus coggygria (no data)
★ *Cytisus* and *Spartium* (low types)
Echium fastuosum (no data)
★ *Eriogonum* (low-growing kinds)
Escallonia (no data)
★ *Fremontodendron*
★ *Garrya elliptica*
★ *Kniphofia uvaria*
★ *Lantana*
★ *Lavandula*
★ *Limonium perezii*
★ *Nerium oleander* (dwarf kinds)
Ochna serrulata (no data)
HF *Pennisetum setaceum*
★★ *Plumbago auriculata*
Poinciana gilliesii (no data)
★★ *Romneya coulteri*
★★★ *Satureja montana*
★ *Teucrium fruticans*

Foliage plants. Succulents are best.

★★★★ *Agave*
★ *Arbutus unedo*
★★★ *Artemisia* (low-growing kinds)
★★★ *Atriplex* (low-growing kinds)
Centaurea gymnocarpa (no data)
★ *Dodonaea viscosa*
★ *Elaeagnus*
★ *Pittosporum*
★★★★ *Portulacaria afra*
★ *Prunus lyonii, P. ilicifolia, P. caroliniana*
★ *Rhamnus alaternus, R. crocea ilicifolia*
HF *Rhus ovata*
★★★ *Senecio cineraria*
Xylosma congestum (no data)
★★★★ *Yucca* (trunkless species)

Vines. Three stars is the best rating.

★★ *Bougainvillea*
★★★ *Campsis*
★★ *Solandra hartwegii*
★★★ *Solanum jasminoides*
★★ *Tecomaria capensis*
★★ *Vitis vinifera*
★★ *Wisteria*

Trees. Choose carefully; seven are HF.

★ *Acacia*
★ *Casuarina*
HF *Cedrus deodara*
★ *Ceratonia siliqua*
★★ *Cercidium*
★ *Cercis occidentalis*
HF *Cupressus glabra*
★★ *Eriobotrya japonica*
HF *Eucalyptus*
Geijera parviflora (no data)
★ *Hakea*
★ *Heteromeles arbutifolia*
HF *Juglans hindsii*
★ *Lyonothamnus floribundus asplenifolius*
★ *Melaleuca linariifolia, M. styphelioides*
★ *Olea europaea*
★★★ *Palms* (if dead skirts are removed)
★★ *Parkinsonia aculeata*
HF *Pinus*
★ *Pistacia chinensis*
★ *Quercus*
Rhus lancea (no data)
★ *Robinia*
HF *Schinus molle*
HF *Sequoiadendron giganteum*
★★★ *Tamarix aphylla*

Ground covers. Lower is better.

★★ *Baccharis pilularis*
★★★ *Gazania*
★★ *Hypericum calycinum*
★ *Rosmarinus officinalis*
★★★ *Santolina chamaecyparissus*

Many forms. No really safe ones here.

★ to ★★ *Ceanothus*
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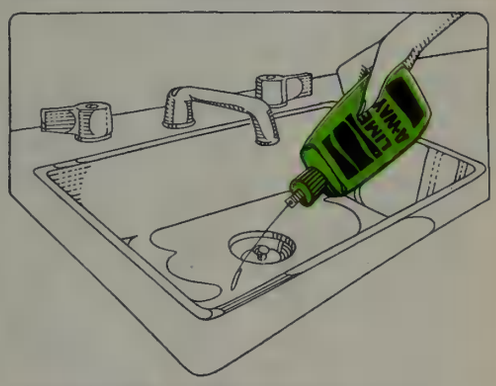

Lime-A-Way removes hard water scale and rust deposits from sinks and fixtures—quick and easy.

Frugality with garden water
. . . here is a summing up of experience in super-dry Marin County in 1976

Very few people know what it's like to garden through a California summer with little or no water for plants. But this summer hundreds of thousands of home owners will probably have to learn how to do it.

None of the regular information channels (*Sunset*, the universities and colleges, the Extension Service) has firsthand, tested advice because California has never been in this situation before. One place where we can learn about full drought and how to cope with it horticulturally is from our unfortunate friends who live in northern California's Marin Municipal Water District.

The shortage that the Marin County district went through last summer was about as bad as what could happen this summer in such large northern California water districts as East Bay Municipal Utility District, Hetch Hetchy (San Francisco Water Department), and the Santa Clara Valley Water District.

The same predicament may very well lie in the future for those parts of Southern California that get their water from the Coast Range: chiefly San Luis Obispo and Santa Barbara counties. Also, Tucson may face eventual drought because the water in its wells is diminishing.

In June of last year *Sunset* published *Frugality with garden water* (page 176), an article that told of dozens of ways to keep plants alive with little or no water. It will make good basic reading for 1977.

This January we took that article to dozens of home gardeners in the Marin Municipal Water District and asked them to tell us of full-drought watering methods they had discovered that were not listed. Following are some of their original ideas for gaining irrigation water where new emergency legislation may prohibit use of garden hoses.

Recyle your water

Once an ordinance makes it illegal for you to water your garden with fresh water, you have only one real alternative: to use what is called "gray water" (water that's been used and may have soap, detergent, or almost anything else in it). Gardeners we interviewed who used soapy water last summer stated unanimously that it seemed to cause no damage to their plants. Of course, they used soapy water only for five months (in winter plants need little water whether it rains or not).

Following are several ways to collect and deliver gray water. Some of them may contradict local ordinances that prohibit the reuse of any household water. Meanwhile, you can work within your community to get such ordinances changed.

The easiest way to collect recyclable water is shown in the photograph directly below: Put a bucket under the sink, remove the J-bend trap, and plug the sewer side.

Another way is to use garden hoses to siphon water from a bathtub that is several feet higher than the garden surfaces you want to water. You don't have to suck on the hose to start the siphon. Just connect it to an outside faucet and put the other end in the full bathtub. Turn on the hose and let it run until the hose stops bubbling in the tub. Then quickly turn off the valve, unscrew the hose from the valve, and set it on the ground. The bath water will immediately begin running through the hose to the ground.

In the shower, you can collect large buckets of the water that comes from the shower head before it turns hot.

Most washing machines are equipped with reversible pumps that at times pump soapy water from the machine into laundry tubs or directly into the sewer by way of unthreaded hoses. You can remove the hose from the outlet and divert gray water from it into a storage tank or out into the garden.

Electric dishwashers should probably not be considered as a source of clable water because dishwasher gent seems too caustic for plant ro

The idea shown in the photogra right below—using drainage from p plants to water underground roots mentioned in our June 1976 article it has been further developed an fined by the Marin County gard The precious potted plants unde tree fern are being watered with cled water from the kitchen sink ar recycled water that passes throug pots will go down to the roots c tree fern.

Be thrifty with fresh water

In districts where residents are st lowed to water gardens with fresh from taps, drip irrigation can b most practical and water-econo method of getting a garden throug coming summer.

But drip-irrigation systems seem tc drawbacks: Trees and large shrub were previously irrigated with vo of water may not adapt quickly to system. And in many cases all the and tubes in a drip system detract the appearance of a garden. To the major horticultural enterpris which drip irrigation has been refi the growing of vegetables and fruits where looks don't count.

Here's an inexpensive but less ef substitute for the drip system: Inve capped small-neck plastic bottles the soil around the root syster plants. The vacuum inside the jugs releases water slowly enough isfy roots in the immediate area.

It seems unavoidable that in di where garden irrigation will be hibited, lawns will die just as the in Marin County last year. Ber grass lawns may survive because o deep roots. No singular outsta landscaping replacement for a deac has come to our attention. At this our best recommendation is gravel, or bark (scrape off dead turf first).

NORMAN A. PLATE

PETER O. WHIT

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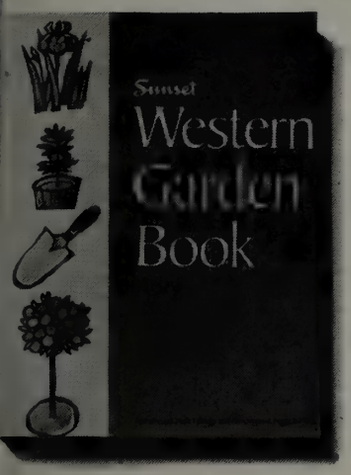

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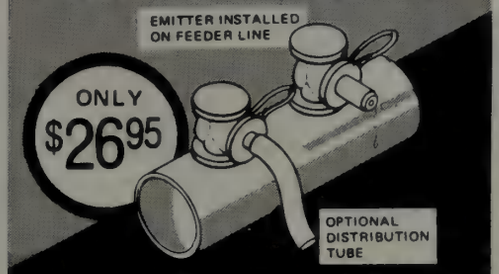

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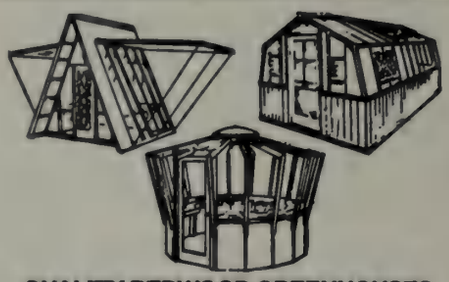

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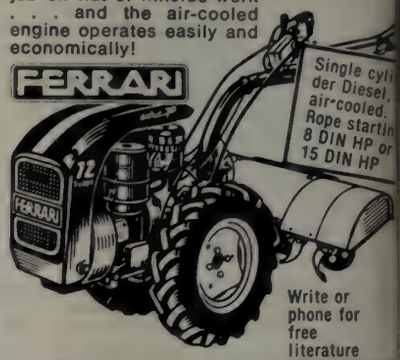

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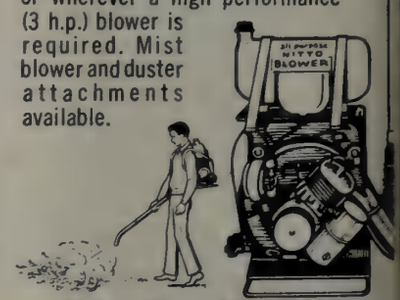

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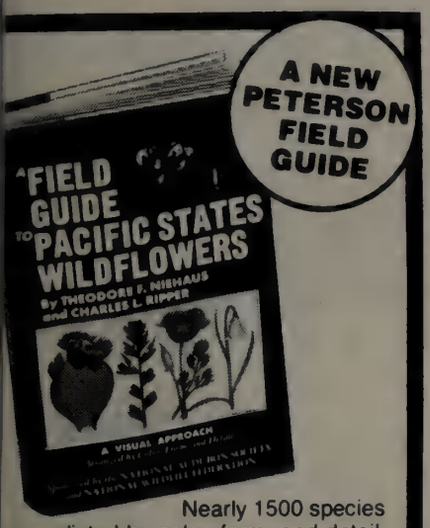

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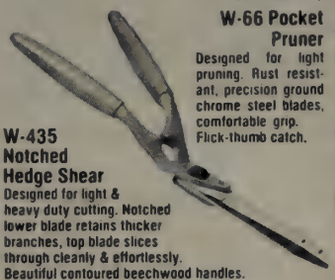

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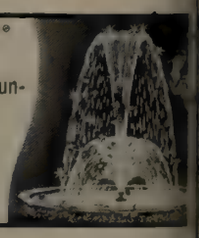

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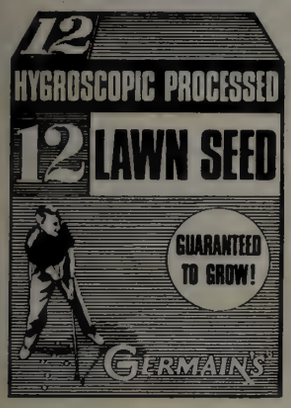

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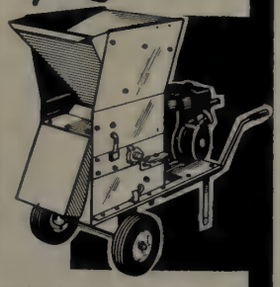

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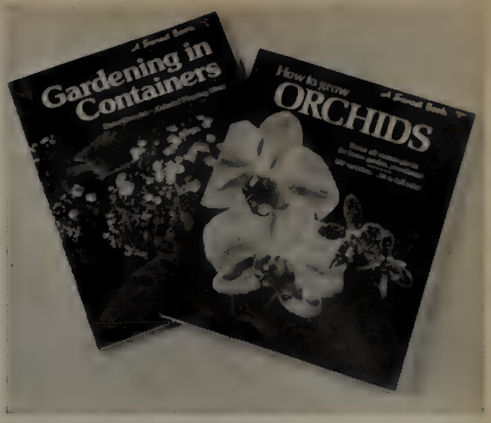

New revisions *of these Sunset books bring much new color, information*

They're new and colorful

What's new in the revised editions of two *Sunset* books, *Gardening in Containers* and *How to Grow Orchids*? The first thing you'll notice is the lavish use of color. *Containers* now includes 86 color photographs and many color drawings; the earlier version had none. *Orchids* has 92 color photographs between its covers; its earlier edition had none.

But don't judge them by their colors alone; both books contain much new information.

Gardening in Containers (Lane Publishing Co., Menlo Park, Calif. 94025, 1977; $2.45) tells you how to get quick garden effects with annuals and perennials in containers. What you create are giant living bouquets. The book opens with a chapter giving many examples. It's followed by a section on how to find or make containers, blend soil mixes, plant, replant, and move containers about. The last section describes in detail over 200 plants that thrive in containers.

How to Grow Orchids (Lane Publishing Co., Menlo Park, Calif. 94025, 1977; $2.45) has been brought up to date botanically. One 34-page section describes the most popular and most readily available kinds, based on recommendations from 20 orchid nurseries and specialists.

The book also delves into orchid history, propagating techniques, and care of these plants under specific conditions—in the living room, under artificial lights, and outdoors. There is a brief summary of orchid botany and an expanded list of nurseries that grow and ship orchids.

A chapter on culture deals with watering, fertilizing, and potting plants; a section on pests and diseases (fewer than you might think) is illustrated in color—a great aid in diagnosis. □

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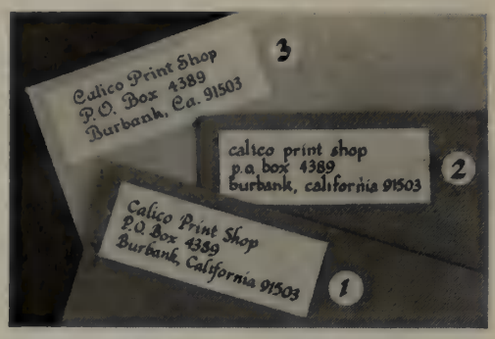

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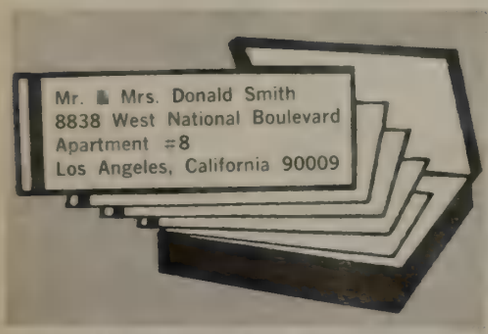

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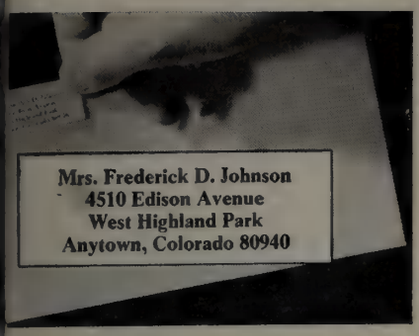

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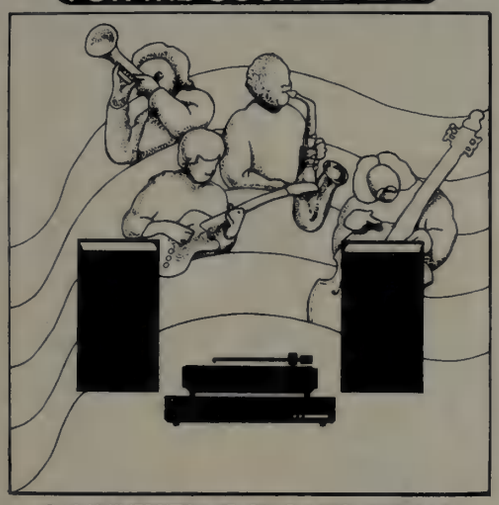

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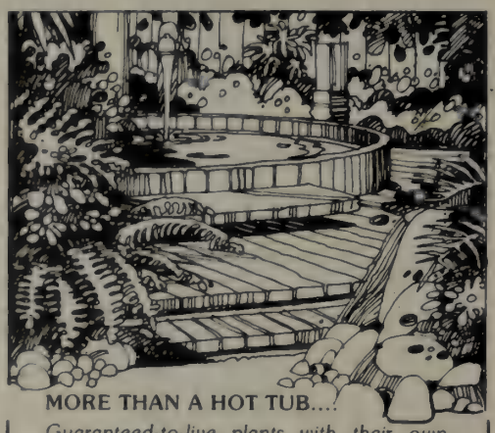

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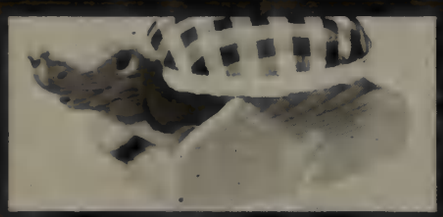

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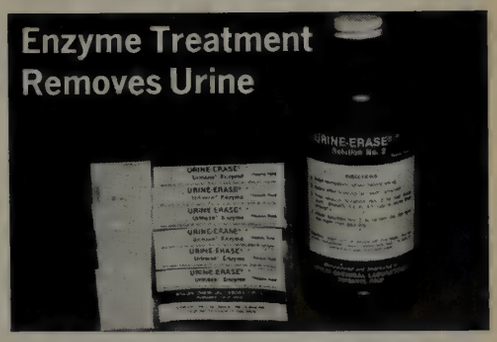

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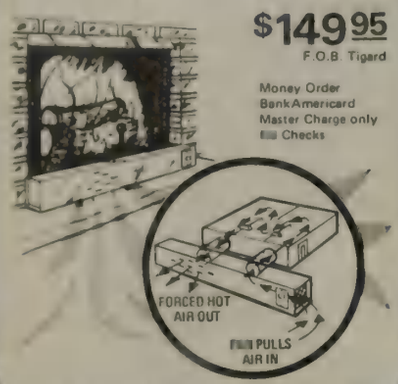

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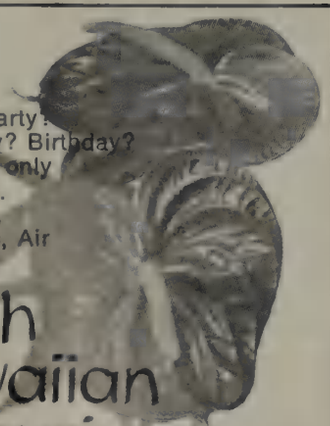

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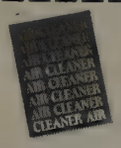

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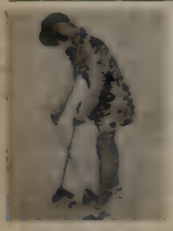

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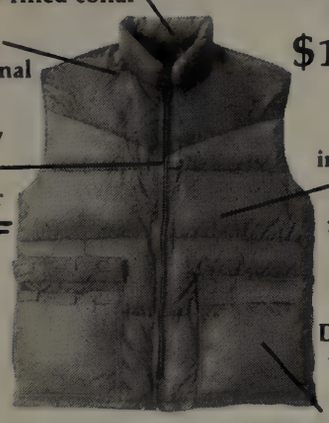

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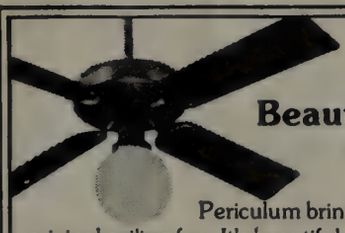

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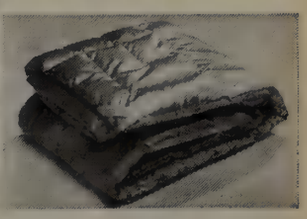

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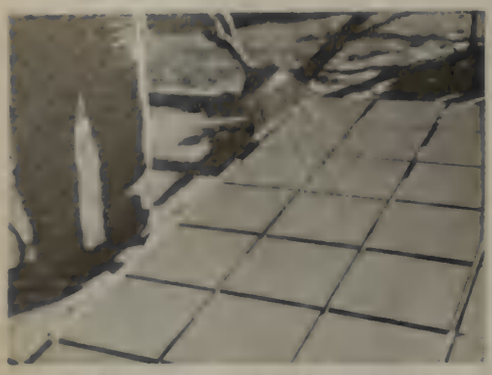

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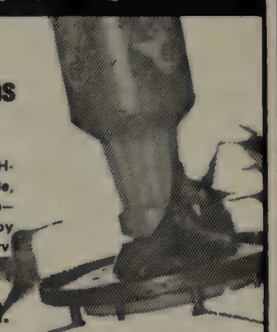

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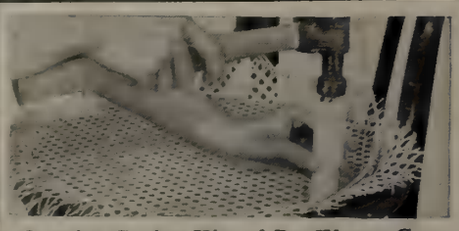

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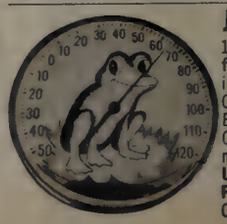

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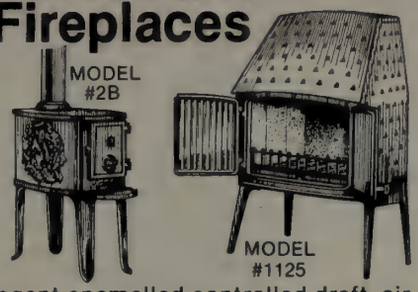

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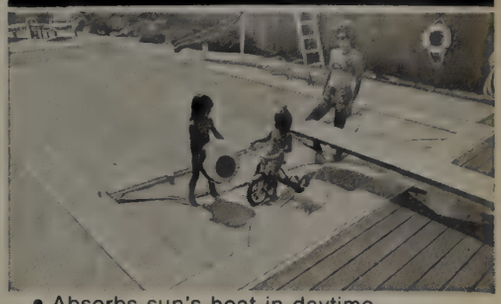

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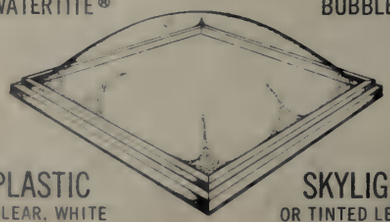

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LETTER FROM *Sunset*

Conserving water and energy. there's help in past *Sunsets*

The closely related problems of drought and declining energy su are very much on our minds as most of the West emerges fron second straight water-short winter.

In 1977 *Sunset* will continue to report new ideas and techniques maintaining an enjoyable life style while accepting the reality of sc resources. There are examples in this issue: solar greenhouses on p 96 and, in all but the Northwest edition, emergency garden-surv advice on page 240B.

But we can also learn from the past. *Sunset's* reporting has alv reflected energy-wise and water-wise living by Western home own as the following list indicates. Libraries may have back issues if don't keep them; here are particularly useful recent articles to look (Where indicated, articles did not appear in all four regional editi

Winter heating

Caring for your heating system, January 1974, page 70
Home-built solar heating system, June 1976, page 84
Solar energy for heating and cooling, November 1976, pages 78 and 142
The wood-heating comeback, January 1977, page 40 (not in Southern California or Desert editions)
Fireplace efficiency, January 1977, page 70

Summer cooling

Sun protection, April 1973, page 98 (not in Southern California edition)
House cooling ideas, June 1974, page 94
Natural ventilation, July 1974, page 100
Sun-control blinds, June 1976, page 82

Energy conservation

Retaining pool heat, November 1973, page 136 (137 Southern California, Desert)
All about insulation, January 1974, page 54
All about weather-stripping, February 1974, page 98
Solar pool heating, June 1974, page 132
Double glazing existing windows, April 1976, page 153
Letter from Sunset: The changing energy picture, April 1976, page 260
Movable insulation, November 1976, page 166
Solar-heated hot water, December 1976, page 96

Water-conserving gardening

Efficient irrigation, August 1972, page 154 (not in Northwest or Central)
Drought-surviving house plants, February 1974, page 160 (not in Northwe
Solar-distilled water, May 1974, page 112
Landscaping ideas from the desert, January 1975, page 50
Drip irrigation, July 1975, pages 60 and 145
Letter from Sunset: The West's precious fluid, July 1975, page 160
Frugality with garden water, June 1976, page 176 (not in Northwest editio
More on drip irrigation, July 1976, page 156B (158 Northwest)
Mist-watering systems, August 1976, page 112B (not in Northwest edition)
Unthirsty gardens, October 1976, page 78 (not in Northwest edition)
Alternatives to big lawns, October 1976, page 86

Some of the realities of 1977 may not be pleasant. But as we lea this winter, the West is blessed with a relatively benign climate *Sunset* we'll continue to help you make the most of it.

WINDOW ON THE WEST: *Desert test garden*

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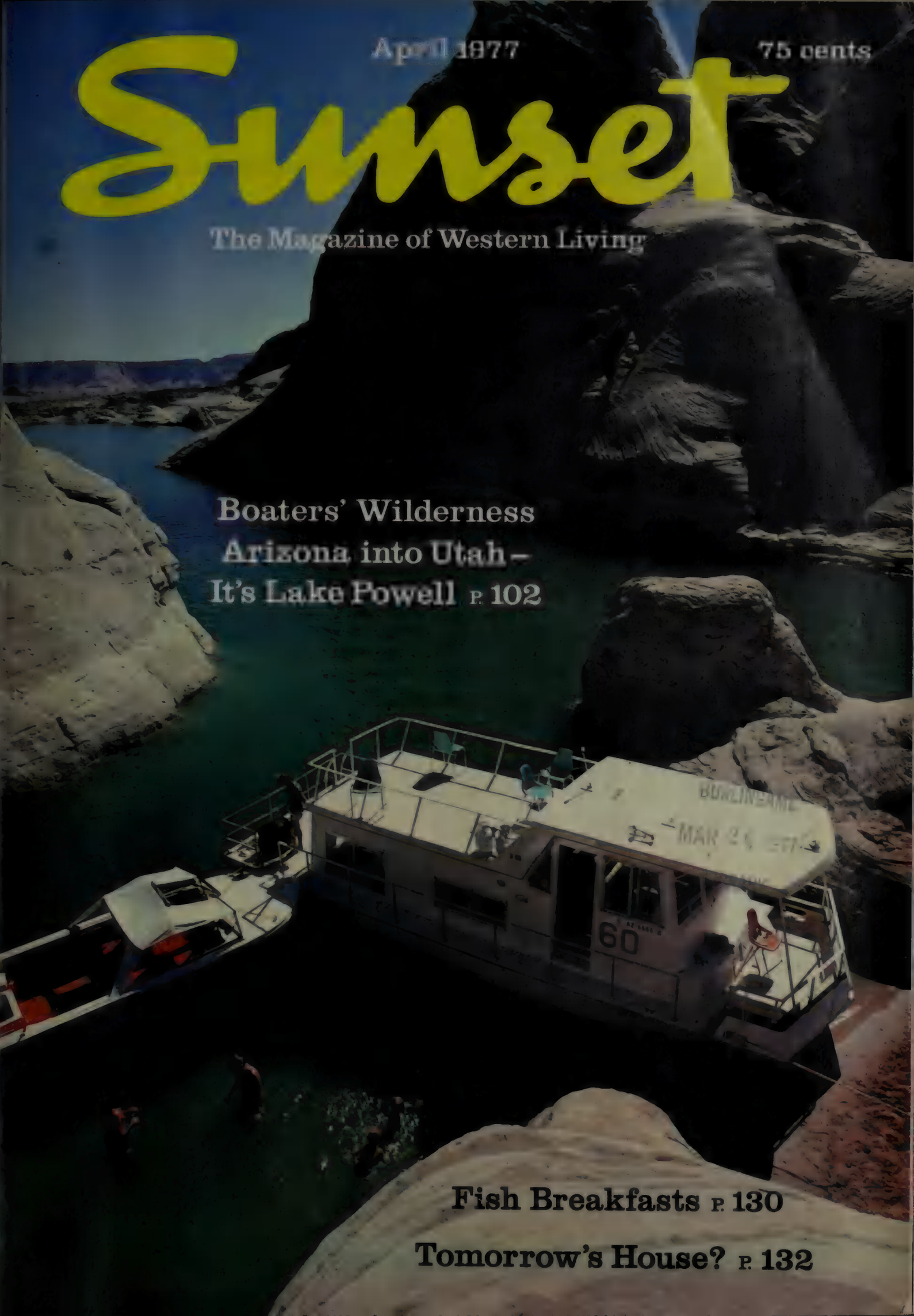

Boaters' Wilderness
Arizona into Utah –
It's Lake Powell P. 102

Fish Breakfasts P. 130

Tomorrow's House? P. 132

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The Cover Story

Houseboat and power cruiser share a shallow cove of Lake Powell, a jade-green reservoir in the heart of the Southwest canyon country with a shoreline almost twice as long as California's entire coast. Turn to page 102 for information on houseboat rentals and other trip-planning help. Photograph by Glenn Christiansen

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JERRY FREDRICK

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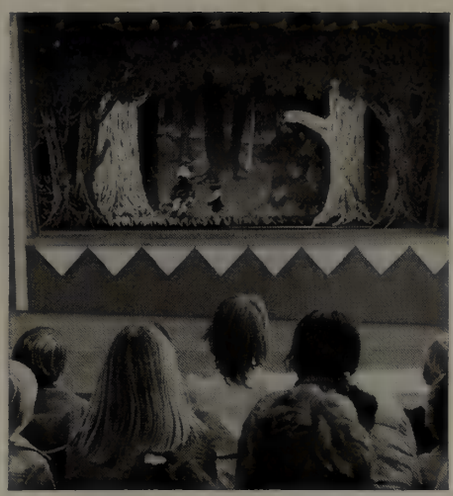

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When the 6-foot rabbit says its time to join the egg hunt, everybody jumps. It happens just about every day during the week before Easter when three Bay Area zoos stage a variety of free activities for children.

The appearance of Big Bunny is always a high spot, but other attractions also draw a rapt group of watchers or participants: puppet shows, egg dyeing, basketmaking classes, and baby chicks and rabbits for petting. Activities are scheduled and supervised so that even the small tykes get a chance to pet a rabbit or shake hands with the Big Bunny. Here's where to go and what you'll pay. Events are daily except as noted.

Oakland Children's Fairyland, Lakeside Park (northeast corner of Lake Merritt). April 4 through 9: Basketmaking, egg dyeing, paper-flower making, all day; small-animal petting zoo, noon to 2; Big Bunny, 1 to 4; puppet shows at 11, 2, and 4; clown shows at 11:30, 1, and 3. Costume parade at 2:30 Easter Sunday only (April 10). Fairyland hours: 10 to 5:30 daily. Admission: 75 cents for adults, 50 cents for children 14 and under.

San Francisco Children's Zoo, Sloat Boulevard at the ocean. April 2 through 9: Hansel and Gretel puppet shows at 1, 2, and 3 P.M. On April 9 only: Big Bunny Easter egg hunt at 11. Zoo hours: 10 to 5 daily. Admission: 35 cents for adults, 25 cents for children 14 and under.

San Jose Happy Hollow Park and Baby Zoo, 1300 Senter Road at Story Road. April 2 through 10: Egg hunt (ages 2 to 14) with Big Bunny and his petting zoo at 2 P.M.; marionette shows at noon, 2, and 4. Zoo hours: 10 to 5:30 daily. Park admission: 35 cents for adults, 25 cents for children ages 2 to 14. Zoo admission: 75 cents adults, 50 cents children. Admission to both: $1 adults, 60 cents children.

French wine, food, dancers at a San Francisco fair

The 125th anniversary of the private French Hospital is the occasion for a

We make a last-minute cover change

Two April covers. *Art director Bill Cheney shows Sunset garden cover (left) that was scrapped at last minute and cover we're using—boating on Lake Powell*

To celebrate the 25th spring of the gardens at our Menlo Park, California, headquarters, we planned an April 1977 cover story to show these mature plantings at their best.

By February of this year we already had proofs of the cover and five pages of color pictures. But as the time to close the April issue approached, the seriousness of the West's drought was becoming all too clear.

We could see that our gardens were just not going to be the same this year as all of us in northern California face up to water shortages. So we decided not to publish the anniversary-garden article and cover. Instead we are picturing the Southwest's plenty-wet Lake Powell on our cover. An accompanying article begins on page 102. □

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free community fair on April 16 and 1
There will be food booths, wine tasti
a health fair in the hospital courtya
and tours of the hospital's buildings.
Four French restaurants will have boo
and give cooking demonstrations (y
might sample some results) and a trou
of 60 Basque dancers will perform b
days. For children there will be seve
performances of a 1-hour skit w
trained circus dogs. The health fair w
demonstrate a heart monitor, teachi
microscope, and respiratory thera
machine.
You can also take a hospital tour (sch
uled every 20 minutes) or attend
symposium where doctors will ans
questions on various health topics. T
hospital is at 4131 Geary Bouleva
fair hours are 11 to 4 each day.

Do-si-do in Sacramento

If you've never seen the "wheel a
deal" or "turning the gear," not to m
tion "spinning the top," then why
stop in at the Sacramento Convent
Center on April 15 through 17 to wa
the square dancers?
At their annual state convention, so
4,000 square dancers will be show
off their dancing duds and demonst
ing their steps in this highly Americ
art. You can drop in anytime during
weekend and watch for free; if you w
to join the dancing, you have to w
your square-dance clothes (it's part
the mood) and pay $2 admission ($3
Saturday).
You'll hear good country music a
some of the 100 or so callers, each w
his own style, who sing out directio
you can also watch some dance clas
The convention center is at 14th and
streets; hours Friday are 2 to 11, Sat
day 10 A.M. to 11 P.M., Sunday 10 t

A guide to historic Denver

Denver's old northwest district conta
15 city-designated landmark buildi
several pioneer churches, brownsto
and Victorians. Now there's a new gu
to the area: *Rediscovering Northw
Denver*, by Ruth Eloise Wiberg (No
west Denver Books, Denver, '19
$19.95).
In 168 photographs and accompany
text, the 212-page hard-cover book p
sents old north Denver, dating fr
1858; the Highlands, home of early m
ing and banking barons; the perim
company town of Argo; and the sub
of Berkeley. The book's two walk
tours will help you discover the ar
highlights.

For Bay Area and Monterey horse lovers . . . take a racetrack tour, watch riders compete

Two events this month may inte
horse fanciers. At one you watch rac

Sunset School & Camp Directory

Camps

Walton's GRIZZLY LODGE BOYS' CAMP

● 50th Season
■ Boys 7-14

IGH SIERRA north of Lake Tahoe, Portola, Ca. 3, 6, or 9 weeks, June 19-Aug. 27 1 weeks, June 26-July 9

Individual Programming geared to the interest and ability of each boy. Daily **Horseback** riding. **Bicycling,** exploring the trails of beautiful Plumas Nat'l Forest. Great adventures and excellent fishing on our campouts and **Pack Trips** to nearby Sierra lakes & streams. Riflery, Archery. Creative **Crafts**—Ceram-s, Art Welding, Photography, Fly-tying. Indian Lore, Frontier Village, Water sports—**Sailing, Water Ski-g,** Canoeing, Swimming and Trout Fishing on our 14 re lake. For **sports enthusiasts**—Football, Soccer, rack, Wrestling, Gymnastics. See movie, "A Day At rizzly Lodge." Campfire programs. Mature ounselors. Charter bus from Reno Airport. rochure: **Joe Stein, Dir., Dept. S, 688 So. enry Ave., San Jose, Ca. 95117. (408) 243-1867**

Hawaii HoLiDay

Summer School at Punahou
o-Ed, for grades 9–12
Earn Academic Credit
ll basic Liberal Arts Courses
Also learn from Champions:
SURF, SAIL, SCUBA, TENNIS!
6 weeks, all-inc. from W. Coast $1,825 plus Tax
Write for Brochure. Please include telephone number
Mary N. Wallace, Registrar
P.O. Box 1656, Kailua-Kona, Hi. 96740 or
J. Max Dougherty, Director, Mainland Ofc. (213) 332-2174

Carmel Valley Junior Tennis Camp
Boys and Girls Age 9-17
8th Season — 1976 a sellout. 3 mi. from lovely Carmel Beach. Modern facilities, 2 pools, 3 week sessions: June 19-July 9, July 10-July 30, July 31-Aug. 20. Brochure available. Write or Call: 27300 Rancho San Carlos Rd., Carmel, Calif. 93921 —(408) 624-7117.

Brush Ranch
FOR BOYS AND GIRLS - SEPARATE CAMPS
parate camps. On Pecos River, near Santa Fe. Boys riflery, skeet, riding, swimming, fishing, tennis, pack ps, crafts. Girls—riding, fencing, swimming, tennis, nce, art, music, drama, nature, pack trips. Coed -17, Backpack Adventure. Two terms. 505/757-8772. **ewcomb S. Rice, Box 2450, Santa Fe, N.M. 87501**

SIS-Q RANCH Tipi living at small, relaxed coed camp, ages 7-14. Flexible program includes all activities and horses. **Special Wilderness & Survival Program.** ACA Accredited. 1-8 weeks. Rt. 1 Box 62B1, Fort Jones, Ca. 96032

KYLAKE YOSEMITE CAMP 33rd "Super" Season on Bass Lake
Boys and 85 Girls. Fees: 2 wks $330, 4 wks $635. omplete program offers adventure, fun, chal-nge & creativity. 23+ activities, tennis, horses, uatics. Brochure, **John T. Howe, C.C.D. Box 163-A, Palo Alto, Ca. 94306** (415) 493-4075.

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land Camping Caravan—Co-Ed 13-17 year olds—all ater sports, backpacking, tennis, horseback riding on arden Isle of KAUAI. 4 two week sessions July-Aug. 7. **Bonnie Dean, Campus Y, San Diego State Uni-rsity, San Diego, CA 92182, (714) 286-6805.**

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ear Paso Robles, Ca. Horsemanship, horse science, ail rides, moonlight rides, campouts, wildlife studies, vimming. Enrichment program. Proper supervision. ood food. ACA accredited. Brochure. **P.O. Box 8, holame, Ca. 93431. Phone 805-463-2320.**

Camps

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REDUCE and SHAPE UP
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YOUNG LADIES 18-29

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(916) 933-0103
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Morton B. Glenn, M.D. Nutrition Consultant
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This summer run with Olympians Ryun, Doris Brown Heritage, Madeline Manning Jackson, in a Christian atmosphere, 3 - 1 week resident running camps, 1 - 1 week resident all-sports camp, Santa Barbara, Tulsa, Okla., and Oberlin, Ohio. For free brochure write or call: P.O. Box 6266, Santa Barbara, CA 93111, (805) 964-8387. Please include phone number

Camps

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Sierra Nat'l Forest—Central California
Established 1933 under special use permit
7000 ft. alt. on beautiful 6-mile Huntington Lake
■ **Water Skiing**—5 speedboats, 6 top instructors
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Member ACA & WAIC
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One of America's Truly Fine Camps — Ages 8-16. Indiv. prog. Mature staff. Land, Water Sports, Western Riding, Guitar, Arts, Music, Drama, Crafts, Gymnastics, Dancing, Ecology, Trampoline, Archery, Hiking, Overnights, Campfires & Skits. Special Activities with Boys Camp. **Phil Slaton, Snowline-Kings Canyon National Park, CA 93633 (209) 336-2514.**

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Ages 8-16. Indiv. prog. Mature staff, 1-4 ratio. The fun starts here. **Featuring:** Indiv. team sports, Pack Trips, Water Sports, Archery, Riflery, Trampoline, Track & Field, Baseball, Basketball, Riding, Crafts, Wrestling, Wt. Lifting, Survival. **Phil Slaton, Snowline-Kings Canyon National Park, CA. 93633. (209) 336-2514.**

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Coed 7-16: A ranch camp where friendships and fun blend through a wide variety of activities. Featuring **Waterskiing, Horsemanship, High Sierra Backpacking.** Also crafts, overnights, swimming, archery, sailing, vaulting and ranch chores. **Flexible Program — Mature Staff.** Enrollment limited to 40. ACA Accredited. Member WAIC. Sessions 6/25-8/27; 2 wks. $315; 3 wks. $450. 1 wk. Earlybird Session for Ages 7-11, 6/19-25, $150. Brochure: **Ray Kalman, PO Box 476, Nevada City, CA 95959 (916) 265-4439.**

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40,000 acres. Challenging 4, 6 or 8 wks. Horsemanship, pool, sports, creative arts, ecology, survival training. Caravan thru Southwest. Credit courses. Non-discrim. ACA accred. Est. 1929. Also winter prep school. Write: **Quarter Circle V-Bar Ranch, Box S, Mayer, Arizona 86333**

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thoroughbreds being put through their paces; at another you see horse and rider undergo three days of grueling precision, racing, and jumping tests.

Golden Gate Fields (1100 Eastshore Highway, Albany) has free guided tours daily April 4 through 9 and each Saturday after that until June 11. The 2-hour tours begin at 8:30 A.M. and take you through the backstretch or stable area. You can talk to jockeys and trainers, see horses being shod and groomed, watch early-morning training races.

(Bay Meadows in San Mateo will also have free guided tours this fall. Hours will be 8 to 10:30 A.M. every Saturday, September through November.)

In the Monterey area you can attend the Equestrian Screening Trials, April 29, 30, and May 1, and watch dressage (precision movements), endurance rides (including a 16-mile steeplechase), and jumping events. Winners from some 130 competitors will compete in the Pan American Games next year. Screening trials hours are 8 to 5 daily; admission is $1.50 for adults, 75 cents for children under 14. They're at the polo field on Portola Road in Pebble Beach, 2 miles from downtown Carmel. □

For travel planners, an April check list

Europe by train. You can now obtain a convenient map of the 13 European railroad systems on which Eurailpass is valid; it includes basic information on how to get around Europe by train. The map is available free from Eurailpass, c/o WBA, 51 Ridgefield Ave., Staten Island, N.Y. 10304. You can purchase a 1977 first-class Eurailpass from your travel agent: $170 for 15 days, $210 for 21 days, $260 for one month, $350 for two months, $420 for three months.

Nature tours. Wildlife sanctuaries and reserves are the focus of several nature tour packages. For example, from June through August you can join 17-day outings to Alaska with stops at Ketchikan, Sitka, San Lazaria Island, Glacier Bay, Skagway and Whitehorse, Mount McKinley National Park, and Katmai National Monument. All meals, lodging, and transportation from Seattle are included in the $1,957 cost. For details on this and other nature tours, see your travel agent or write to Questers Tours and Travel, Inc., 257 Park Ave. South, New York 10010.

Caribbean cruise. At Fort-de-France in Martinique you can board the schooner *Ariadne* (46-passenger) for a cruise in the Lesser Antilles; to the leeward islands of Dominica, Guadeloupe, Les Saintes; or to the windward islands of St. Lucia, Palm Island, Union Island, Bequia, and St. Vincent. Prices, from $395 for a seven-day outing to $720 for a two-week cruise combination, include all meals and use of water sport equipment. For details, write to Caribbean Schooner Cruises Inc., 380 Lexington Ave., New York 10017.

Climbing seminars. From June through August, Mount Hood's Elliott Glacier and Smith Rock State Park in central Oregon are the sites for five-day basic and advanced ice and rock climbing seminars. The fee (from $190) includes equipment and tent accommodations. Snow and ice seminars cost from $200. For details, write to Lute Jerstad Adventures, Box 19527, Portland 97219. □

What a travel agent can do for you: Provide information on tours; reserve space on air, rail, bus, and steamship lines; make hotel, ranch, and resort reservations; take care of trip planning, including side trips and special events. Travel agencies do not charge for arranging transportation or package tours, but do charge for "custom" tour service.

Sunset School & Camp Directory

Camps

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June 19 through July 23

A twin program in College prep English and Math to help you develop language and math skills for College Board exams.
Individual conferences throughout with your instructors in both courses.
In English, review emphasis is on vocabulary building, composition, and analysis of assigned college themes.
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For further information, write or call:
Director, Summer Programs, Santa Catalina School
Mark Thomas Drive, Monterey, CA 93940
(408) 373-0651

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"... run on the principles of John Muir" — *National Geographi*

"Survival of a different sort . . ." — *Newswee*

Mt. Shasta Wilderness. Coed 9-16. Fully accredited Backpacking, Canoeing, Crafts, Natural Food Kitchen, Organic Gardening, Photo Lab, Rive Floats, Sailing, Snow Mountaineering, Self-Suffi ciency, Yoga & much more. Info: E.C.O. Box S Montgomery, Creek, CA 96065.

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Offering individual attention with an emphasis on Enjoyment of the Outdoors.

High in the Sierras, at the Foot of Gold Lo MOUNTAIN BASE CAMPS offers a lim enrollment BOYS CAMP (ages 10-14, l 24) for two 2 week sessions; and also a CO BACKPACKING SEMINAR for teens (a 14-16, limit 18, for two, 7 Day Sessions). Write for free brochures.
Russell & Beth Reid
918 Mission Way Sacramento, CA 95
(916) 457-4715

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ALPENSTOCK ADVENTURES

Boys 9-13, 12-16. Small group of boys and the naturalist-mountaineer leaders per trip. 7-21 days Sierra, Trinity Alps, Rockies, Tetons, Alaska, e Backpacking, fishing, wilderness skills, wildlife. FU Also winter & spring vacation X-C skiing, etc, So trips co-ed. ACA Accredited program, references o last 10 years. Transportation included. **Alpensto Adventures, Kurt Rademacher, 1393 Solano, Suite B Albany, CA 94706. Phone (415) 527-6547 for brochu**

RANCHO VERDE *Summer Camp*

6-26 to 8-20. Riding, horse shows, tenn ARC swimming, crafts, riflery, arche hay-rides, cook-outs, beach parties, fa animals, rowing, water skiing. Mature Counselors. Member ACA & WAIC. **Send for Brochures. Mr. Delmar Miller, 3192-B Glen Canyon Road, Santa Cruz, California. Phone 408, 438-1113.**

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Willits, Calif. 95490 707 - 459-54

FAMILY CAMP near Yosemite, come bring the family for a week or (less) of fun with water skiing, horseback riding, tennis, swi ming, canoeing, sailing at **Skylake Yosemite Camp** on Bass Lake. Fee: 1 wk $90.00 child $70.00 meals incl. Brochure: **P.O. Box 11163-F, Palo Alto, Ca. 94306 (415) 493-4075.**

Sunset School & Camp Directory

Camps

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"A time to play, to learn, to grow"

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ated in San Bernardino Mtn. 7,300 ft. elev. near Bear Lake—Boys 8-14—3 to 9 week sessions—June uly 17, July 17-August 7, August 7-August 28. mming, Horses, Water Skiing, Fishing, Crafts, hery, Riflery, Back Packing, Outstanding Staff. CA, 600 Long Beach Bl., Long Beach, CA 90802) 437-3534, ext. 45. Member A.C.A.

Western Association of Independent Camps

irectory listing 50 resident, day and el camps with more than 1000 seasons combined experience. Camp programs feature a wide ety of activities with fun, adventure, creativity and lenge. **FREE DIRECTORY — WRITE OR PHONE** C, INC., 17 Hernandez Avenue, San Francisco 94127. AMP BUREAU, 600 E. Longdon Avenue, Arcadia 91006 389-1188.

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Horse Ranch in the beautiful country of the dwood Empire. Specializing in horsemanship the beginners and advanced. Trail rides, k trips, and horse shows. Lots of riding. per supervision. Limited Capacity. For Folder Reservations write or call.

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unique summer experience with her **very own horse** from the ranch ring of over 150 head. Beginning thru advanced lessons. Small living oups. 1:3 Staff-Camper ratio. 6200-acre back country ranch: the erfect setting for a summer of fun and personal growth. Your area ference gladly furnished. Tuition from $795.00.

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40th year. Where French is Fun! Deer Isle, Coastal Maine. Happy, productive summer for girls 5-18. Outstanding staff & facilities. Elective program: Specialize in FRENCH, ballet, riding, creative arts & music, tennis, nnastics, canoe trips, swimming, sailing on Penob- t Bay. C'est magnifique! Pre-camp horsemanship ic and post-camp sailing. **Capt. & Mrs. C. C. Selin Neptune Dr., Groton, Conn. 06340 203-536-7980**

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in Oregon on cattle ranch teaching riding, ning, trail riding & horse care. 2-week sessions. lified counselors. Insured protection. Great food. nth season begins June 19. Free brochure: Write **101 Panther Gulch Road, Williams, OR 97544.**

VE YOUR CHILD A WONDERFUL SUMMER

, girls, ages 10-14 will be accepted on our private nd. Most land and water sports, teepees, swimming pool. French and American counselors.

Institut Francile of Canoe Island Camps Inc.
Box 185, Eastsound, Wash. 98245

ming Gorge Ranch

Vernal, Utah. Boys-girls 7-17; 3-7 weeks of fun, e 27-Aug.13. Riding, roping, pack trips, float Gr. er, ski Flaming Gorge, canoeing, baseball, heated l, tennis, archery, riflery, trap shooting, xlnt food; Art Reichle, UCLA; 43 yrs. exp; Brochure, 1215 chors Way Dr., Sp. 93, Ventura, Ca. 93003.

Camps

RALSTON-PASARELL Tennis Camp
For Boys & Girls

Have Fun and Learn Winning Tennis from **DENNIS RALSTON**, former Davis Cup Captain and L.A. Strings World Team Tennis Player-Coach . . . also, **CHARLIE PASARELL**, N.C.A.A. Champ and L.A. Strings player! Instructional program personally designed and directed by Dennis and Charlie.

Two-week throughout the Summer at Cal. State Sonoma in **Northern Calif.**, Cal. Lutheran College near **Los Angeles** and Pt. Loma College in **Diego.**

DETAILED FREE BROCHURE
Send Name, Age, Address Phone to:
RALSTON-PASARELL TENNIS CAMP DEPT. RSU
8245 Ronson Rd., Suite D, San Diego, CA 92111
(714) 279-7800 Calif. Res. Toll Free (800) 542-6005

MONTECITO-SEQUOIA

32nd Season—High Sierra—Private Lake—Heated Pool
"WE THINK GIRLS ARE SOMETHING SPECIAL"
Indiv. programming for girls 9-16 with varied interests all for only $28/day. Minimum of ONE mature, qualified counselor for every FOUR campers. FEATURING: **Over 35 activities;** West & Eng Riding • Waterskiing • Pack Trips • Gymnastics • Dramatics and MUCH MORE . . . One three week session 7/24–8/14 — Plus 5 Specialty Camps 7/10–7/23 **Horsemanship program • Girls Backpacking Clinic** • Special 28 day **European Camping Trip.** . . . ALSO: **Family Camps** • Seminar & conference facilities avail. year-round. Free color broc. . . . PHONE: **Dr. Virginia Barnes (415) 967-8612**—WAIC & ACA Accrd.

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FOR PROSPECTIVE WEIGHT WATCHERS CAMPERS AND THEIR PARENTS/SATURDAY April 23, 1:00 to 4:00 PM OR SUNDAY April 24, 1:00 to 4:00 PM/ Refreshments served—No charge at TROPICANA VILLAGE • 55 NORTH BROAD ST. SAN LUIS OBISPO, CALIF.

WEIGHT WATCHERS CAMPS. Toll free #800-223-7688

OAK CREEK RANCH CAMP in Arizona

A real ranch camp on beautiful Oak Creek in the Verde Valley. Co-ed, ages 7-15. Field trips; horses; fishing on campus; pack trips; farm animals; swimming; ceramics; leather work; canoeing; archery; riflery; southwestern travel; temperate climate. Campers enjoy excellent facilities of Oak Creek Ranch School. **Optional academic work for credit, or enrichment, ages 12-17. Catalogue. David S. Wick, Dir., Box 3391, W. Sedona, Ariz. 86340. Tel (602) 634-4089**

Castilleja Summer Camp
Six Weeks of Fun

For girls Ages 8-13 Boarding and Day. We offer two 3-week sessions starting July 10 and ending August 19 of sewing, cooking, drama, tennis, swimming, dancing, art, riding, gymnastics and tumbling, and indoor sports.

1310 Bryant, Palo Alto, CA 94301, Dpt. S, 415/322-2131
Headmaster: DONALD R. WESTMORELAND
Director: STEVEN T. SAN JULE
Brochure available upon request.

PACK TRIPS FOR GIRLS
Horse Pack Trips into the rugged South Warner Wilderness of Northern Calif. Expertly guided for girls 12 and over. Each girl has own horse for an unforgettable 2 week trip. Riding, fishing & swimming in cool mountain lakes. **For info., schedules and rates write: Don Collis Pack Trips, Alturas, Calif. 96101.**

ALASKA TEEN CRUISE

Co-ed. Explore the B.C.-Alaska Coast on a 70 foot boat. 4 or 8 weeks. 6258 Sycamore, Powell River, B.C., Canada.

SOCCER & GYMNASTIC CAMP at Portola, Ca., No. **Walton's GRIZZLY LODGE** of Lake Tahoe. Aug. 21-Sept. 3; **Boys & Girls** — 7 thru 12. Choice of **Soccer** or **Gymnastic** coaching + many camp activities — **riding, sailing, fishing, water ski,** etc. Broch.: Joe Stein, Dept. SG, 688 S. Henry Ave., San Jose, CA 95117. Tel: 408-243-1867

Camps

WEIGHT WATCHERS® CAMPS
OVERWEIGHT
Girls and Boys 10 to 21 years
Collegiate Group, 17-21

There are so-called "slim-down" camps. There is only one Weight Watchers.

Fun-packed Weight control camps in magnificent locations of your choice.*

More than losing weight and learning to eat well yet properly, WEIGHT WATCHERS helps you develop your **whole** potential. Enjoy new friends, boundless activities — **tennis, riding, golf,** most land/**water sports,** exciting evening programs. Resident RN. Tuition includes 8 weeks in your local Weight Watchers classes after camp.

$1240, four wks; $1740, seven wks, No Extra Charges.
WEIGHT WATCHERS CAMPS, DEPT SS,
183 Madison Ave, New York 10016 (212) 889-9500,
out-of-town call Toll Free 800-223-7688. (Staff appl. must write)
***Camps in Pocono Mts, Pa; No. Car.; Wisc. & Calif.**
Operated under license from Weight Watchers International Inc Manhasset N Y 11030 Trademark owner

Junior Tennis Camps
TENNIS SQUAW VALLEY USA
at the beautiful Squaw Valley Inn
THE ARIZONA TENNIS CAMP
at lovely Yavapai College, Prescott, Arizona

Boys & Girls 9-17 ■ June-Aug.
Also: hiking, horseback riding, swimming, etc.
Clip ad or write for a brochure:
Charles Hoeveler
U.S. SPORTS DEVELOPMENT Dept. S
1 Embarcadero Center ■ Suite 2614
San Francisco, California 94111 ■ 415 ■ 781-8162

NAVAJO TRAILS

Coed 9-11 & 12-18 — Rocky Mtn. Ranch Camp
For 40 youths seeking fun-packed experiences in self-discovery, genuine challenge, learning & fellowship. Complete "in-camp" program of skillbuilding activities PLUS adventuresome "out-camping." Horses & outpost riding, mountaineering, Lake Powell waterskiing, kayaking & river running in Utah's High Rockies & Colorful Canyonlands. VARIED program with mature counselors aimed at cultivating INITIATIVE & SELF-RELIANCE. ACA & WAIC accredited. 12th season $160/wk. DIRECTOR: Don Sampson, Box 886-m, Los Altos, CA 94022 (408) 245-6789.

Camps

Girls 8-18
SLIM DOWN
in Beautiful
Hawaii

Club Pacifique has a fantastic summer program to help you lose weight while enjoying six delicious weeks in Hawaii!

All this and sports, trips, surfing, swimming, modern dance, Polynesian culture and nutrition. As a free option, we'll teach you a year's worth of French (it's a **credit** course too) in six weeks.

But most of all, you'll have fun with kids your own age while taking off the pounds. The fee for this year's camp (June 21-August 1) is only $1645 **including** round trip from Los Angeles.

If you're looking for a unique slim-down, stay-down program, write **today** for our free brochure. (And ask about our Tahiti Program!)

Club Pacifique
3261 Overland Avenue — Dept. ST-2
Los Angeles, CA 90034
(213) 836-3464

SANTA CATALINA SUMMER CAMP FOR GIRLS

Grades 3 thru 9

- June 20—July 5
- July 6—July 23
- Or Entire Five Weeks Optional

★ Tennis Clinic—Beginners & Advanced Riding & Gymnastics

★ Tutoring in English, Reading & Math Optional

★ Weekly Hikes, Overnight Campout, Swimming, Golf, Drama, Modern Dance, Painting, Guitar Lessons, Creative Writing

For brochure write or call: **Director, Summer Programs, Santa Catalina School, Monterey, CA 93940 PH: 408/373-0651** **ACA Accredited**

MENDOCINO REDWOOD COUNTRY
EL RANCHO NAVARRO
PHILO, CALIF.
WESTERN RANCH CAMP Girls & Boys 7-16

A place of beauty for children to discover and enjoy. A safe, non-competitive atmosphere; supervision by mature, sensitive counsellors. Ride, Swim, Arts, Crafts, Tennis, Hike, Sports, Daydream, Wilderness, Dra-Mu-Da. Three week sessions begin June 26, 1977. For Folder write: Edna and Irv Newman, 957T Phillips Ave., Petaluma, CA 94952; or call 707-763-1248.

THUNDERBIRD RANCH

Western ranch camp for boys & girls ages 6–15. Horseback riding over 1500 beautiful acres; canoe trips; campfires; swimming (lake & pool); archery; riflery; tennis; and more. Sleep in a real R.R. caboose or covered wagon. Ratio of experienced counselors to campers, 1 to 5. 15th season.

BRUCE JOHNSON, 9455-S Hiway 128
Healdsburg, CA 95448 (707) 433-3729

Camps

CAMP BEAVERBROOK
BOYS AND GIRLS, 7 to 15
On Cobb Mtn., Lake Co., Calif.

Fun of farm, forest, mountain, stream — where Pomo Indians camped. Sleep in tee-pee tents by stream — home of beaver, trout, turtles, frogs; **Western, English riding, tennis,** NRA riflery, archery, farm chores, building, drama, crafts, ecology, nature; swimming, fishing, sailing and canoeing in camp pond, stream or lake; **Water skiing, canoe,** pack & nature trips available. Trans. TO camp incl.

Special programs, ages 7-9, 10-11, 12-14.
Leadership training program (CILT) ages 15-17

Write Bob and Marian Brown, Box 306S, #7 Ardilla, Orinda, CA 94563; Phone (415) 254-5960. Member ACA and WAIC.

CLOVERLEAF RANCH SUMMER CAMP

Western Ranch Camp, For Boys & Girls 7-15
"Buzzard's Gulch" Ghost Town, 180 acre operating ranch. Emphasis on Horseback riding and horse shows. Swimming (lake and heated pool), riflery, fishing, boating, campouts, and etc. 30th year.

Ron and Ginger DeGrange
3890-C Old Redwood Highway,
CLOVERLEAF RANCH,
Santa Rosa, California 95401
(707) 545-5906

ECHO MOUNTAIN RANCH

A joyous CHRISTIAN camp time for:
52 Boys & Girls—8 to 15 yrs. July 3 to Aug. 31
Your child is special to us, too!

Good care, good food, good fun, good friends, at a beautiful ranch-home convenient to the S.F. Bay Area. Program includes: Our own well-trained string of western horses; vaulting on horseback (exciting!); swimming; fishing, sailing; woodshop, ceramics; building; ecology, cooking; drama; archery; tutoring. **Write: Mrs. "B," 19103 Bear Creek Rd., Los Gatos, CA 95030. Or phone 408-354-7703.**

Saint Mary's College Athletic Camp

For boys and girls 8–17 on campus of famed Galloping Gaels. Jim McDonald heads football staff, baseball under Miles McAfee, well known pro scout; Frank LaPorte, leading No. Cal. cage authority, directs basketball. Session for football is June 26, basketball July 24 and 31, baseball July 31. Soccer, July 3, 10, 17, 24; Volleyball, July 10, 17; Girls' basketball, June 26; Girls' activities (dance, swim, gymnastics, tennis), July 3. Fee: $129 resident, $110 day. Brochure: **Dr. Don McKillip, St. Mary's College Athletic Camp, Moraga, CA 94575.**

St. Mary's Residence School
Summer School Summer Camp

June 26 - July 29
Grades 4 through 8 — Small Classes
Conducted by the Christian Brothers
Now in our 107th year of Christian education
Write or Call
BROTHER DIRECTOR, F.S.C.
P.O. Box 510, Napa, California 94558
Telephone (707) 255-4851

HORSE CAMP FOR TEENS 12-17

Riding and horsemanship in fields and forests of beautiful 600-acre Mendocino County horse ranch. Top-quality instruction, field riding, games and races, jumping, vaulting, trail rides, horse care. Lots of riding, English, Western and bareback, in arena, field and forest. Live outdoors in the redwoods. Picture brochure. **ROYAL REDWOOD RANCH, Joe and Claudia Ayres, P.O. Box 112J, Comptche, CA 95427.**

Camps

SANTA CATALINA COEDUCATIONAL MARINE BIOLOGY '77

Open to Grades 10 through 12

- June 19 to July 15
- July 18 to July 29
- Option of first 4 weeks in Monterey, last two weeks in Hawaii, or entire 8 week program

★ Use the Monterey Peninsula's rocky coastline as a natural lab for your study of marine population

★ Continue your research in the new modern lab on campus

★ Snorkel and dive off reefs of Oahu & in Hanaumu Bay to satisfy your curiosity about the environmental movement and coastal ecosystems.

For full details write or call: **Director, Summer Programs, Santa Catalina School, Mark Thomas Dr., Monterey, CA 93940, 408/373-0651.**

America West Student Tours
presents **AMERICA AND CANADA '77**
a 43-day travel experience, for teenagers 13–18. Leaves L.A. June 25. All counselors are Calif. teachers. For information contact: Jim Lewis, P.O. Box 3462, Thousand Oaks, CA 91359, (805) 495-0512.

INDEX OF DIRECTORIES

School and Camp Directory is the first of five Directories which appear regularly in each issue of SUNSET Magazine. The other four Directories are:

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GARDEN CENTER
beginning page 296

SHOPPING CENTER
beginning page 302

All schools and camps advertised in this directory meet the highest of standards. Be sure to mention *Sunset* Magazine when you write them for further information.

Sunset School & Camp Directory

Camps

K ARROW RANCH

6,000 ACRES OPERATING RANCH
Co-ed, Ages 8–17 June 19–Aug. 27th
[illegible] week sessions or longer

Emphasis on **Western Riding** (daily), **Waterskiing** (our own private beach), **Tennis, Jr. Rodeo Events,** roundups, hayrides, sailing, swimming, canoeing, fishing, overnight campouts, campfires, riflery, crafts, field trips, sports and more. Mature staff. Free brochure. **Write or Phone**

John & JoAnn Terry
Box 157-P
Jamestown, Ca. 95327
(209) 984-3925 — (209) 847-5269

ACA ACCREDITED CAMP

[illegible] Ranch

BOYS - GIRLS 6–14
Near St. Helena just 65 miles north of S.F.
Napa Valley
Summer Fun and Adventure

[illegible]6 acre Operating Ranch — Riding! Sailing, Swimming, Archery, Fishing, Crafts, Farm Animals, Gardening, Campouts. $120.00 per week includes everything. (Scholarships—Integrated.) Begin 6/19. College counselors. MEMBER ACA. Brochure. Ed Keith, 330 [illegible]mrose Rd., Burlingame, CA 94010—office 415-348-[illegible]4 Days. Open House Sun., May 29.

RAINBOW WILDERNESS SURVIVAL CAMP

[illegible]-ed 12 to 20 - June to Sept. - also Adults, Families

[illegible]rn to live in harmony with nature. Explore Mon[illegible]a Wilderness. Back packing. Float the rugged [illegible]mon River in Idaho. Nature awareness-mountain[illegible]ing – fishing – forestry – ecology. O.P. horseback [illegible]s. $197 per week. ACA accredited. Director [illegible]nes S. Drinville, Rainbow Camp, Box 413, Ana[illegible]da, Montana.

Telephone 406-563-7724

RANCHO OSO

[illegible]ch living experience for boys and girls [illegible] - 14. Riding, [illegible]mming, gymnastics, nature lore, crafts, animal care. [illegible] 2-week sessions June 26-Sept. 3.

ACA [illegible] WAIC accredited.
For brochure or reservations write:

Pat [illegible] Suzy Faverty; Rancho Oso Summer Camp, Star Rte.-S, Santa Barbara, CA 93105

COPPERCREEK

[illegible] Season . . . Coed 8-15 • A small non-structured [illegible]mer Camping Program in the northern Sierra, near [illegible] Almanor. WAIC and ACA Accredited. Exciting Activi[illegible] — Learn English, Horseback Riding, Water Skiing, [illegible]mming, Back Packing, Sailing, and more from experi[illegible]ed Staff. Pre and Post Specialty Weeks. Write for [illegible] illustrated Brochure.

John Lindskog, Box 749, Cabin-S, Greenville, Ca. 95947. 916/284-7617

[illegible]AMP ZUMWALT

[illegible] Corral Meadows **For boys & girls 8–16**

[illegible]ique horseback riding camp on a pioneer working [illegible]tle ranch [illegible] the High Sierras. A horse for each [illegible]per to ride on daily trail rides over unfenced [illegible]es. Rustic family living with a junior guest ranch [illegible]osphere. Lots of riding, pack trips, good food, and [illegible] in mountain fun. Good horses. Small camp. 12th [illegible]r. write for free brochure or call: **10415 Ave. 264, [illegible]alia, CA 93277** **(209) 686-3782 or 784-6377**

FOUR WINDS ★ WESTWARD HO

[illegible]st season in San Juan Islands. Exciting activities [illegible] boys and girls 6–16: sailing, canoeing, riding, [illegible]nnis, creative arts, music, and trips. Individual [illegible]oice program, emphasis on personal growth. [illegible]hn [illegible] Leslie Clark, Box B-1, Deer Harbor, WA 98243.

Camps

Kennolyn

32nd Season. Santa Cruz Mts. near the ocean. Ages 6–14. Accredited Camps.

Exciting activities. Mature leadership. $175/wk. and up. Learn skills in Riding, Swimming, Skin diving, Soccer, Tennis, Gymnastics, etc. Enjoy Primitive Camping, Ocean Life, Hiking, Campfires. Also **FAMILY CAMP.** Complete illus. booklets. 8205B Glen Haven Rd., Soquel, CA 95073. 408/475-1430.

Kennolyn's SPECIALTY CAMP

Ages 10-17. In the redwoods overlooking Monterey Bay. Separate from Kennolyn. Unique blend of numerous camp activities with the chance to specialize in a particular field: Riding, Tennis, Golf, Sailing, Gymnastics, Swimming, Soccer, Scuba or Backpacking. Specialists for instructors. A total camp environment with Beach Days, Leisure activities, campfires and the **SPECIALTY** you select.

GIRLS 13–17

LOSE WEIGHT WITH THE Sierra Weight-Walkers

Average loss 1976 — 22 lbs.

Backpack the complete 225 mile length of the spectacular John Muir Trail from Yosemite Valley to Mt. Whitney. Six week session from July 17 to August 27. Limited to 12 girls. Counselor ratio 1–3. Pace geared to group ability. Frequent lay-overs and food resupply. Controlled diet; no temptations or distractions. No backpacking experience necessary. All equipment provided. Treasure the unmatched beauty of this rewarding Sierra hike.

Directors: Linda Walter (213) 842-3171
Mel Schlossman (213) 776-8589

Mail: **235 S. Keystone St. Burbank, Calif. 91506**

Venture Valley

Boys & Girls 7-14
Santa Cruz Mountains

Everything you want in a camp . . . and much more. A life-enriching experience where children learn to value themselves and others. A chance to explore and discover in the magic world of the redwoods . . . along the beach of Monterey Bay. A spirit of adventure and sharing where fun, work and friendships are cherished. Riding, Swimming and more. Qualified staff who care. Brochure. **Bonnie Wendt, Venture Valley, Box 6, Corralitos, CA 95076 (408) 724-9025**

FOUND
NEW SELF IMAGE
NEW CONFIDENCE

Girls 7-16, lose 15-55 lbs. having the time of your life! Increased activity, balanced diet & understanding staff build new images, new self-confidence. Succeed in sports, attractiveness & personality. Year 'round counseling maintains **weight loss.** 4 & 8 week programs, permanent facilities. Accred. ACA. Dr. Lloyd O. Appleton, Box 226
KINGSMONT Camp
W. Stockbridge, Mass. 01266 413-232-8518
Also: Camp Kingsmont for Overweight Boys

MOUNTAIN MEADOW RANCH

Co-ed, ages 8–16. Capacity 60. Enjoy 2–10 weeks in California's NE High Sierra. Adult Staff & MD. Individualized program includes English [illegible] Western Riding, Water Skiing, Pack Trips, Tennis, Special Teen Program. Fully Accredited—A.C.A. Est. 22 yrs. Brochure & Films. Winter Boarding School.
Dr. Patrick Dickson, Dr. Jack Ellena (916) 257-4419
P.O. Box 610, Susanville, CA 96130

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550 acre operating Sonoma Mountain cattle ranch and summer camp for boys and girls, 6-17. Horseback riding • horse shows • rodeo • animal care • swimming • canoeing • Honda Trail Rides • fishing • riflery archery • campouts • hiking • dancing • vaulting

Owners, Mr. [illegible] Mrs. Reno Pronzini, 3268 Adobe Rd., Dept. S, Petaluma, CA 94952. Phone: 707-763-1011.
Write or call for brochure

Camps

LOSE WEIGHT

CAMP MURRIETA for GIRLS 8 to 21*

will help your daughter lose weight this summer (typical girl **20-45 lbs.**) while she learns lifelong weight control skills and enjoys an exciting summer of fun with new friends. Over 30 sport & self-improvement activities . . . Medically supervised . . . Effective home follow-up program! **CAMP MURRIETA** is successful for hundreds of girls each summer. Help your daughter become the girl she wants to be!

FREE BROCHURE!
Send Name, Address & Phone:
CAMP MURRIETA, DEPT. MSU
8245 Ronson Road, San Diego, CA 92111
(714) 279-7800 Calif. Res. Toll Free: (800) 542-6005
*Special program for girls 17-21.

Beautiful San Diego location overlooking the Pacific. Field trips to Sea World, San Diego Zoo & Disneyland. Also Camps in Ohio, Texas, Wash. State & Wisconsin.

ACA ACCREDITED CAMP
6th YEAR

SHADY LAWN FARM

53rd Year June 26-Sept. 3

RIDING CAMP FOR GIRLS 7-15

2-week Sessions—or longer

Daily riding classes (English, Western, arena, trail), horse science course, horse vaulting, horse shows. Instructors certified through Camp Horsemanship Assn. Red Cross pool and lake swimming, sailing, canoeing, water skiing, fishing, crafts, campfire programs, organic garden and orchard, home-raised beef. Brochure.

Mr. and Mrs. Ernest Orr
SHADY LAWN FARM
Oakdale, CA 95361
Phone (209) 847-1942
ACA and WAIC Accredited

CAMP PACIFIC

for boys 7–17. On the ocean 35 miles North of San Diego. Founded 1943. Surfing, water skiing, sailing, canoeing, Olympic pool. Varied land sports. Also academic courses. Enrollment 6 or 3 weeks, June 26-Aug. 6. Accredited. Catalog: **Camp Pacific, Box SU, Carlsbad, CA 92008. Phone 714-729-2385.**

CALIFORNIA ASSOCIATION OF PRIVATE CAMPS

SANTA CLARA COACHING CAMP

. . . On the Campus of University of Santa Clara . . . for all boys 9–14

Conducted by the University athletic staff, 2 sessions. **July 10-23 ● July 24-Aug. 6. ALL SPORTS.** Residence and Day plans available. Non-denominational.

FOR BROCHURE WRITE: **S. C. COACHING CAMP, Ath. Office**
Univ. Santa Clara, Santa Clara, Calif. 95053

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Boys & Girls 6-17
July 2 — August 29

Fee $125 wk. Individual program. Pioneer family living. Riding, swimming, farm animals, crafts, fishing, canoeing, archery, fresh air, private lake & creeks. Brochure. **Mr. & Mrs. Robert S. Hooper, Box 969B, Hayfork, CA 96041—(916) 628-5196**

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(Ages 17-22) Discover Austria in the Fall: work at our Ski Lodge in Steamboat Springs in the Winter. Summer Programs: **High Adventure (Ages 16-19);** Adventure Bound (15-18); **Expedition (13-15); Discovery (9-13);** Write: Dr. and Mrs. G. J. Poulter, **BEAR POLE RANCH,** Steamboat Springs, CO 80477.

Sunset School & Camp Directory

Camps

WEST COAST GOLF ACADEMY

NEAR LAKE TAHOE — BOYS & GIRLS 9-18
at FEATHER RIVER INN PREP SCHOOL in the SIERRAS

Beginner
- Develop proper technique
- Rules of golf etiquette
- Play at 9 hole course
- Supervised practice at driving range

Intermediate
- Instruction commensurate with level of play

Advanced
- Beautiful, challenging Graeagle Golf Course
- Video tape, Tournaments

Separate 1 or 2 Week Sessions for Advanced & Novice
JUNE 19 — JULY 2

Write for Free Brochure:
WEST COAST GOLF ACADEMY
19251 Portos Dr., Saratoga, CA 95070
Phone: (408)867-2930

Call:
MR. JACK GUIO
(408)243-3507 Bus.
(408)371-6226 Home

SANTA CATALINA SCIENTIFIC PHOTOGRAPHIC WORKSHOP

June 19—July 23

A unique, five-week course covering techniques in scientific micro-photography, use of the flash in photographing birds, insects, marine life, precious stones. Individual instruction in color film print control, composition and comparison of color and black and white photography, use of large format cameras to control perspective, exhibition printing. Open to students and adults.

For further information, write or call:
Director of Summer Programs, Santa Catalina School
Mark Thomas Drive, Monterey, CA 93940
(408) 373-0651

CALAMIGOS HAWAIIAN ADVENTURE

BOYS & GIRLS, 12 to 16 • 2 to 4 week programs in HAWAII & CALAMIGOS STAR C RANCH in Malibu Mts. Excellent Supervision, Horseback Riding, Surfing, Sailing, Swimming, Tennis, Sightseeing, Fishing, Reefing. From $675. Includ. Airfare

CALAMIGOS STAR C RANCH, MALIBU
Boys & Girls, 8–16 • 2–8 wk. programs • Est. 1947

For complete brochure, write or call:
Rt. 4-S, Malibu, Ca. 90265
Phone: (213) 889-9724/873-4490

SUMMER FUN & STUDY

Ojai Valley School

Program I Oceanography, composition, drama, math, art, study skills, snorkel and scuba diving, riding, pack trips, shop. Coed grades 2-9. Three 2 week sessions. June 26–Aug. 6. **Program II** Special classes in study skills, developmental reading, writing, SAT preparation, horsemanship, camping, rock climbing, soccer. Grades 8-12. June 26–July 29. WAIC & ACA accredited. Equal opportunity admissions policy. Specify program. **Catalog: Robert G. Kay, Adm. Box L, 723 El Paseo Rd., Ojai, CA 93023**

Camp Cayucos

A wonderful summer adventure for boys and girls, 7-14.
Horses • Swimming • Backpacking
• Crafts • Indian Lore • Nature Trails • Beach Trips • Cook Outs and More!!
Phone (805) 995-3754 or write:
Camp Cayucos, Santa Rita Road, Cayucos, Ca. 93430

Tennis Camp

Prof. instr., sm. classes, co-ed. 2-wk. sess., ½ day a.m. or p.m. Swim. & lunch avail. Sessions: jr. (9-17), hi schl team train. & adult eve. 6/20-8/12. **Nancy Miller, Tennis Dir., Sacred Heart Sch., Valparaiso Ave., Menlo Park, CA 94025 (415) 322-1866.**

Camps

SKYLAKE RANCH CAMP

80 boys and girls 7-14 yrs.
Exciting summer fun forested mt. farm nr. Yosemite Park. 3 wk periods $450, horses, lake, Sierra trips, baby farm animals. Director: J. Wendell Howe, (35th Season). **P.O. Box 308A, Menlo Park, CA 94025, (415) 322-8001;** ACA/WAIC.

Schools

QUO VADIS?

My many and varied educational experiences can help point the direction for you and your son or daughter as you deal with:

. . . selecting a school or college
. . . motivation
. . . summer plans

Please write for my brochure:
Mrs. Constance Ballou Pratt
910 Lathrop, Stanford, CA 94305

Formerly English instructor, college admissions officer (Radcliffe College), school counselor and college adviser.

Currently Executive Secretary of national educational association. Member IECA.

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BOARDING·COLLEGE PREP·COED

Accredited. Prep & General courses. Grades 1-12. Small classes. Developmental Reading/Remedial Math/Art. Daily activities: Weekend travel. All Sports: Riding, Tennis, Riflery. Summer Study abroad. Healthful climate. Informal Southwestern life. Est. 1928. Brochure.

Henry S. Wick, Director Judson School
Box 1569, Scottsdale, AZ 85252
Telephone: 602-948-7731

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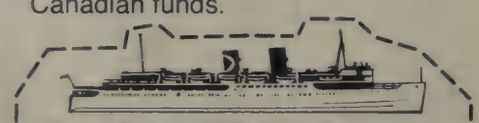

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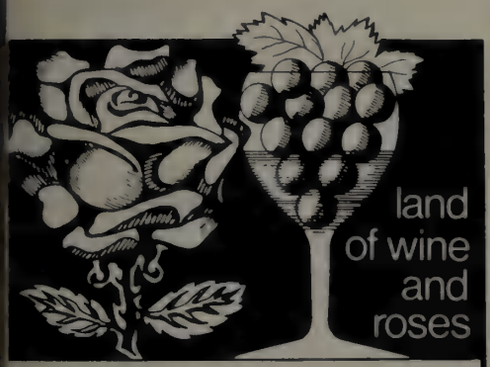

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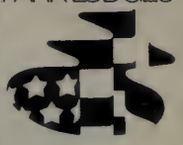

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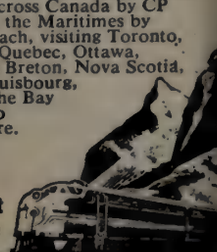

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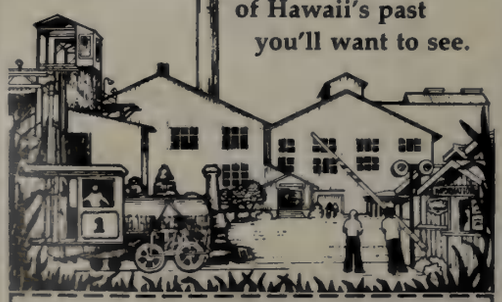

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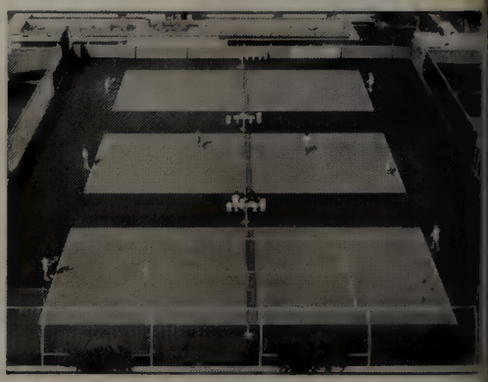

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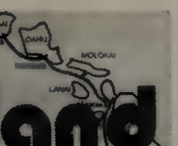

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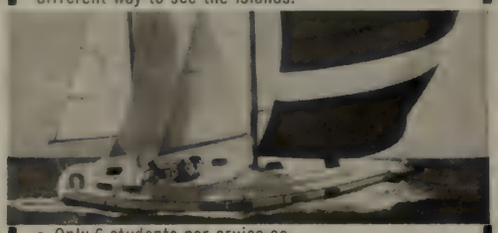

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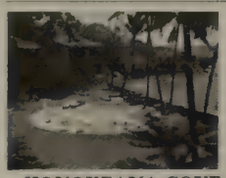

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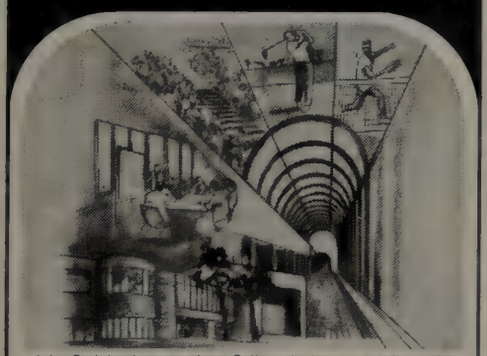

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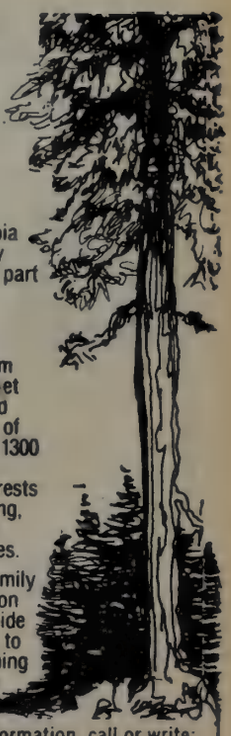

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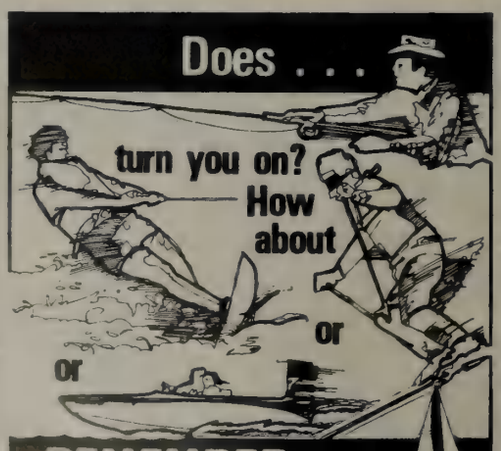

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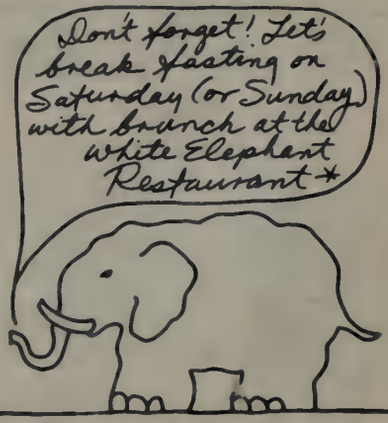

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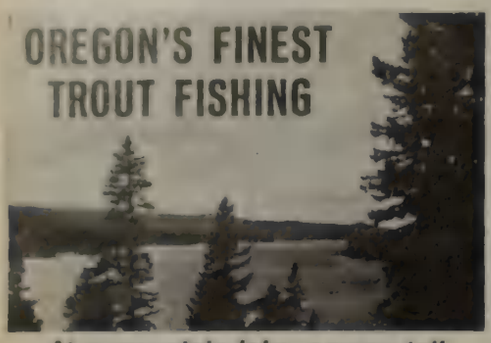

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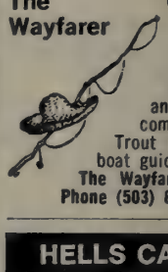

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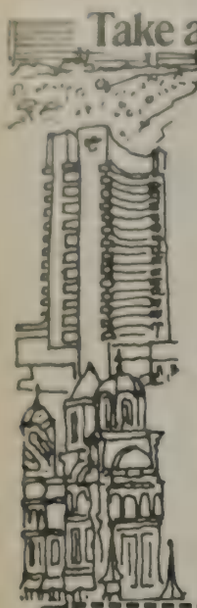

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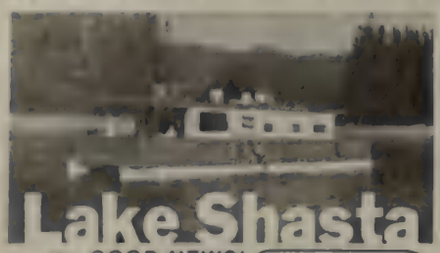

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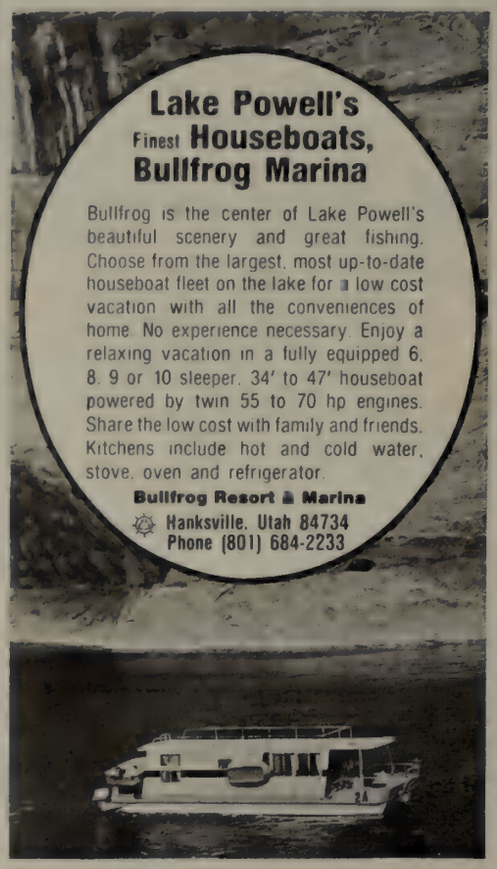

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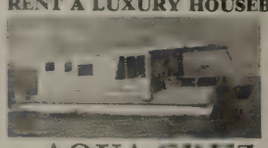

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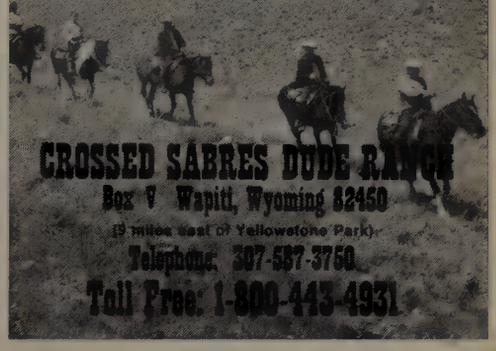

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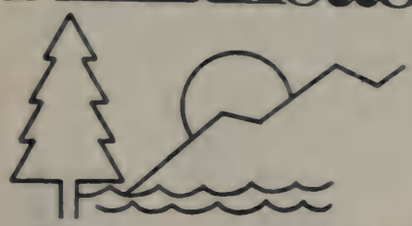

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TRAVEL DIRECTORY IS CONTINUED ON PAGE 37

The 120-year-old *Great Stone Church in Waimea is built of sandstone and coral*

Wayside churches on Kauai

A stop in one of Kauai's little wayside Christian churches can give an unusual view of the island's culture and past. Happen in on a Sunday and you'll be invited for services, perhaps in native Hawaiian.

Many are decorated with beautiful potted plants and native flowers. Altars are sometimes richly embellished with carvings and paint. Outside plantings—now large and mature—show an early sensitivity to landscaping with tropical materials. Many old graveyards have tombstones dating to the 19th century.

Of the two dozen or so Christian churches on Kauai, here are six of the most interesting:

Hanalei. The Waioli Hui'ia Church, seen from State Highway 56, is a complex of three buildings. The oldest, the restored Mission House, dates to 1837. The second building, the original church, was built in 1841. Only the green frame church, built in 1912, is still in use as a place of worship; outside are impressive Alexandra and areca palms. Tours are offered between 9 and 3, Tuesdays through Saturdays.

Lihue. Going west on State Highway 50 from Lihue, you reach the Evangelical Lutheran Church (built in 1883) by making the first right turn after the sugar mill on the left; follow the drive uphill. This denominational church served the large German community that worked on the Lihue plantation. Tombstones date to 1887.

Koloa. Coming into town from the north on State Highway 52, turn left at the main intersection. Follow historic markers to St. Raphael's Church, a beautiful masonry chapel built in 1856. Its grounds contain sanctuaries of native rock.

Waimea. Continue west on State 50 to Waimea. The Great Stone Church, or Foreign Church (pictured above), has two graveyards. In one, tombstones are in English; in the other, Oriental characters. Hawaiian Church (1867) is left of Highway 50, going west in the downtown. To see Waimea Christian Church (1912), turn right after the fire station and drive uphill.

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Jack's Peak . . . behind Monterey, now open daily

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To enter the park, leave State Highway 68 at Olmstead Road, opposite the Monterey Peninsula Airport, and go south 2¼ miles to Jack's Peak Park Road. Turn right to the parking lot at road's end (less than a mile). Bike lanes are marked along the occasionally steep access roads.

Picnic sites surround the parking lot, and a spectacular mile-long loop trail to the top of Jack's Peak begins here. It's an easy walk through the Monterey pines, with one vantage point that overlooks Monterey and the Pacific. As you wind around the west side of the mountain, Carmel, Point Lobos, and Carmel Valley come into view; from the summit you may even spot whale spouts in spring and again in early winter. The return hike takes you across the meadows on the east side of the mountain.

Several miles of fire trails also depart from the lot; they offer hikers, joggers, and horseback riders more quiet forest valleys than breathtaking vistas. Wherever you go in the park, be especially wary of poison oak (oaklike leaves come in threes, stems are thornless). It grows as ground cover, vines, and even shrub forests a dozen feet high.

The park use fee is 50 cents, payable at the entrance (it may not be collected until summer). □

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The Boronda Adobe near Salinas

A pastoral setting preserves the authentic mood of an early California *rancho* at Boronda Adobe State Historical Landmark, 3 miles north of downtown Salinas. The ranch house, built by José Eusebio Boronda in 1848, sits on a grassy knoll above Alisal Slough.

The adobe's interior had been in disrepair until it was recently restored by the Monterey County Historical Society. It's now open to the public. Inside you'll see some of the original furnishings, old photographs of the Boronda family, and artifacts of California's Mexican period. Plans for the future include a museum/history center and exhibits relating to early-day agriculture.

This month the house will be open Saturdays from 1 to 4; there is no admission charge. Tours can be arranged through the Salinas Chamber of Commerce, (408) 424-7611.

The Boronda Adobe is related architecturally to the Larkin House in Monterey; it has many of the construction details of that prototype "Monterey Colonial." To reach the adobe from U.S. 101, take W. Laurel Drive to Boronda Road; the house is on the right. □

Great-granddaughter *of Boronda shows family photograph on docent tour*

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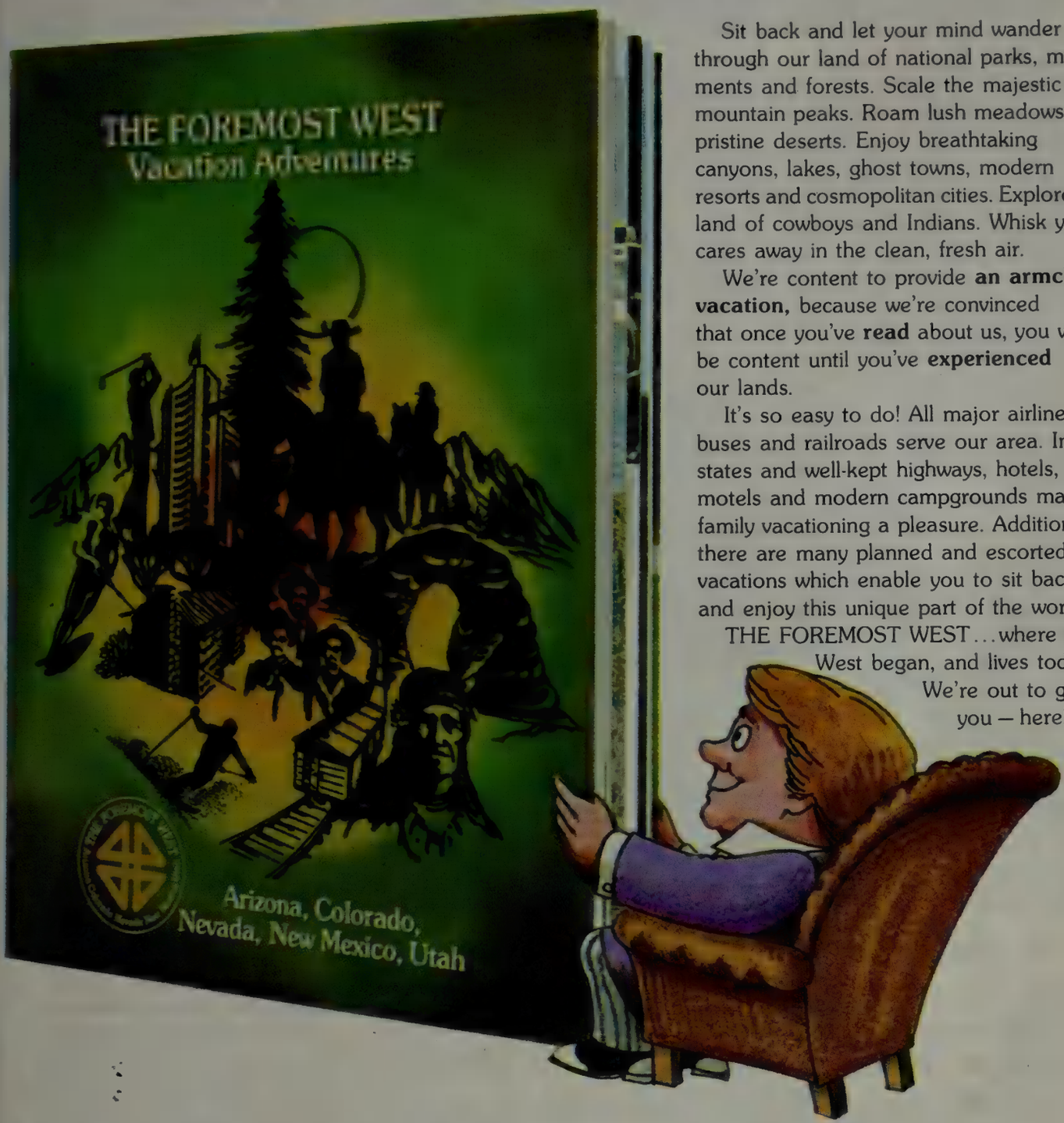

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For visitors to the L.A. area

Like to know more about the attractions of Los Angeles and Orange County? Four visitor bureaus can help you—by mail or telephone or (probably more to your advantage) on a personal visit.

And unlike similar visitor bureaus in other cities, these four can also supply you with free tickets to television shows. The bureaus get their quota of tickets about once a week, so they may well have some for shows being taped the day you stop in or at most a day or two later. Game and talk show tickets are usually available—occasionally ones for a popular series.

In addition, you can pick up a trove of maps, guides, and brochures on such things as scenic drives and flights, walking and bus tours, points of interest, hotels, restaurants, and the like. Even longtime residents can find out something new about their city.

While some bureaus have display racks filled with brochures, others keep them behind the counter; ask if you don't see what you want. Most bureaus will send a free general information packet to help you plan a trip in advance, but they're not staffed to answer specific inquiries by mail on an individual basis.

The four are open weekdays, 9 to 5.

Southern California Visitors Council, 705 W. Seventh St., Los Angeles 90017; (213) 628-3101. Nearly 1,000 brochures on 13 Southern California counties.

Los Angeles Convention and Visitors Bureau, 505 S. Flower St. (in Arco Plaza), Los Angeles 90071; (213) 488-9100. Only a few brochures on display; others are behind the counter. Especially useful information on downtown.

Beverly Hills Visitors Bureau, 239 S. Beverly Dr., Beverly Hills 90212; (213) 271-8174. Unlike the other bureaus, this one offers personalized limousine tours for five people or less (shopping and dinner/theater tours are the most popular). An "Ambassadear" (hostess-guide) goes with you. The cost starts at around $20 per person (in a group of four) for a half-day tour that includes lunch. Write or call for reservations at least two days in advance.

Anaheim Visitors and Convention Bureau, 800 W. Katella Ave. (in the Convention Center building across the street from Disneyland), Anaheim 92802; (714) 635-8900. Wealth of material on attractions and motels in the Disneyland area as well as other parts of Orange County. □

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HANK KRANZLER

A dreary English flat *is the setting for A Taste of Honey, which opened the new Black Swan Theater at Ashland*

Lobby *reveals new theater's past lif as a rehearsal hall; you'll see stage lights mirrors, scenery flats scattered abou*

Black Swan little theater opens. It will add to 1977 Ashland

The lights came up on an intimate new theater this spring at Ashland's famed Oregon Shakespearean Festival. In the planning for some years, the Black Swan Theater is a 138-seat playhouse which will eventually showcase controversial, sometimes daring works that don't have to be the popular successes needed to fill the festival's two larger houses.

If you plan to be in the southern Oregon area soon (Ashland is about 20 miles north of the California-Oregon border, off Interstate 5) you can catch the end of the spring season through April 9 with plays in both the Black Swan and the Angus Bowmer theaters.

And it's not too early to plan for the summer season, June 11 through September 18; ticket information follows.

The decor of the new theater recalls its past as a rehearsal hall. It's on E. Main Street, across from the two big theaters. Entering, you walk through a mirrore hallway and past naked scenery flats Then you go backstage—dressing room to the left, curtains and scenery to th right, a row of mismatched chandelier above—and out to the seats.

The seats rim three sides of the stag (called a thrust or open stage), so you'r never more than a few feet from th actors. This setting should work well fo trying challenging new plays, controver sial pieces, even small-scale revues. Th directors of the Black Swan hope th new offerings will bring an added vitalit and variety to the festival.

Ashland's other houses, the 600-seat in door Angus Bowmer and the 1,200-sea outdoor Elizabethan Theater (open onl during the summer season), will con tinue to present the regular festival far —mostly Shakespeare, with some popu lar contemporary works.

Two seasons, nine plays

Although there are only a few days le in the spring season, as of our press tim there were some tickets still availabl for the final five days (April 5 throug 9). *A Taste of Honey* by Shelagh De laney is currently playing at the Blac

Black swans *now swim in Ashland's Lithia Park pond in honor of the theater's name*

Stylized emblem *marks the entry doors. These people had ticket for the well-known first play; future productions may be more controversia*

Everyone should know some body language.

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JERRY FREDRICK

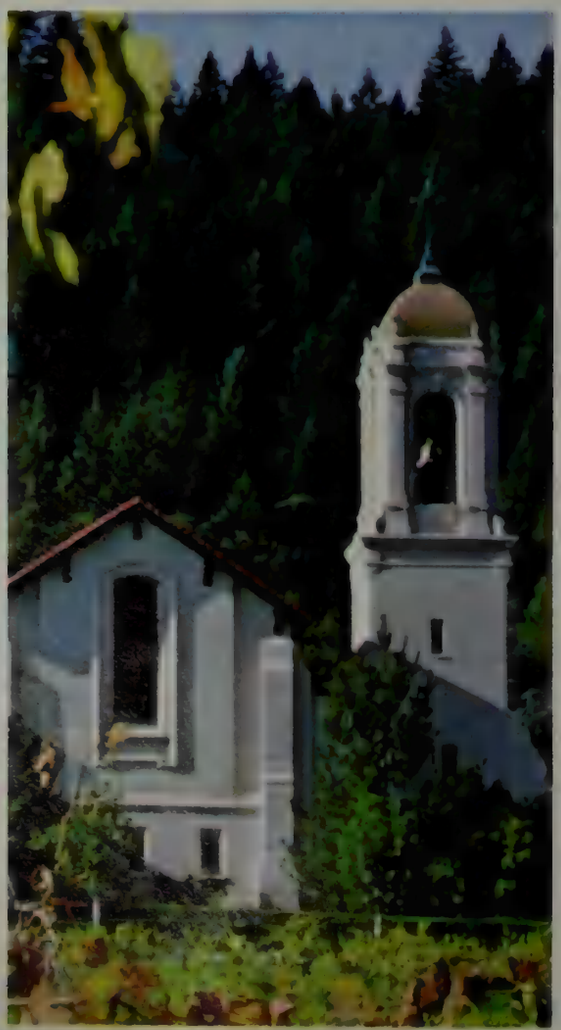
Racing shell *passes sloop in Newport Bay. High-rise behind is a mile away in Newport Center*

BOB EVANS

Twin sea lions *at water's edge on Anacapa Island. Third one takes it easy in surf*

CRAIG AURNESS

It's late August *in Oxnard seed fields. Workers are picking mature orange marigolds*



TED STRESHINSKY

Bell tower *of novitiate at Mont La Salle, the Christian Brothers vineyards west of Napa*

A fresh book look at California

A completely new book has just been slipped behind an old and well-known title. It is *Beautiful California* (Lane Publishing Co., Menlo Park, Calif., 1977; $5.95). It takes you on a complex visual tour of the state, border to border, coast to Sierra, with 347 color photographs on 208 pages. You see four examples here.

This book doesn't pick up a paragraph or photograph from the earlier *Beautiful California*, first published in 1963, which sold 250,321 copies, most recently priced at $12.95. The new book is among the first in a new series of inexpensive soft-cover pictorials.

The earlier version was a quiet look at California, mostly scenic California, mostly in black-and-white photography. The new book takes a livelier look, all of it in color. It experiences California. Here are people doing things—surfing, sailing, roller-coasting, hang gliding, concert going, beachcombing, rock climbing, working. And here is the breathtaking California landscape.

Also just published in the same soft-cover $5.95 format are new editions of four other *Sunset* pictorials. These are earlier books now revised and updated. The new bindings make possible price cuts of nearly half to more than half; The books were $10.95 to $14.95 in hard-cover.

The other four

Alaska, 208 pages. The fishing, the wildlife, the folk art, the awesome landscape, the past. Color and black-and-white photography, six maps.

Back Roads of California, 208 pages. Sketches and trip notes by artist Earl Thollander; the only pictorial in this group illustrated entirely with sketches.

California Wine, 224 pages. Edited by Bob Thompson. Wine-making history, personalities, techniques. Wine making today in all of California's wine districts.

San Francisco, 256 pages. Color and black-and-white photographs as well as sketches. Includes a 56-page illustrated section on early San Francisco history. □

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You're more than welcome.

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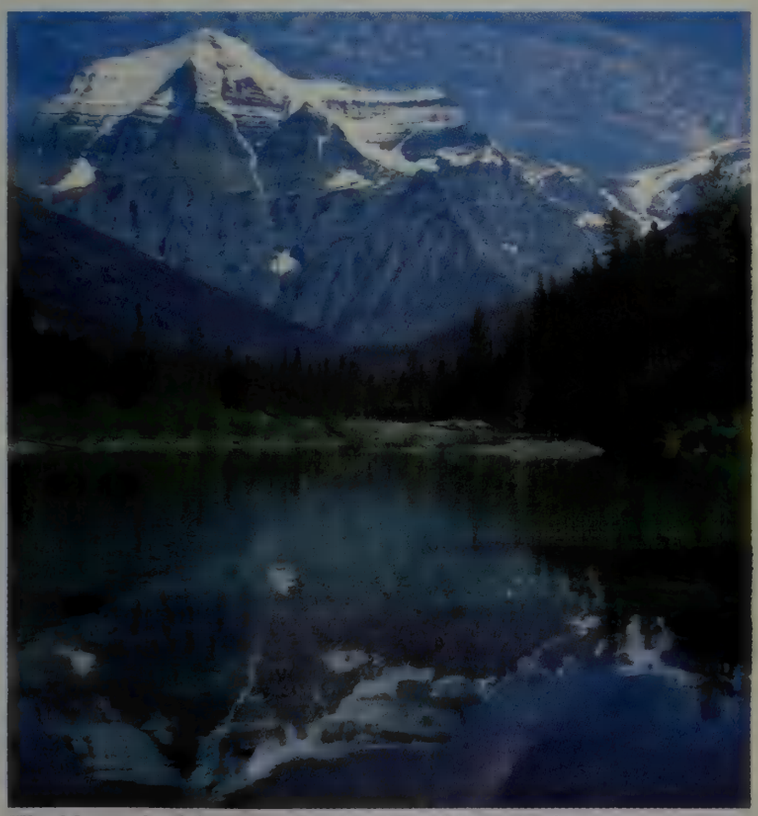
All aboard the Royal Hudson! A scenic day's journey along the coast to Squamish then back to beautiful Vancouver.

l Empress Hotel overlooks Victoria's peaceful Inner Harbour. in for tea.



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Furrier *trims prepared skin before cutting it to pattern size in fur workroom*

Behind the scenes in Denmark

Understanding the lives of another people is often difficult during standard tours of foreign cities. But in Copenhagen, visitors with just a bit of extra time can take two brief excursions that will give some insight into how the Danes live and work.

Denmark's much-publicized social institutions are the subject of a 3-hour outing. You'll visit a typical day-care center for preschool children, a school, and a home for senior citizens. The well-informed guides can also answer any questions about Danish wages and taxes, unemployment compensation, pensions, medical care, education, and housing.

Industrial arts are featured on another outing. Behind the scenes at a fur store you'll see mink and other skins worked into stunning coats and jackets; at *Bing and Grondahl* you'll follow the progress of a delicate porcelain piece through molding, firing, painting, glazing (you can also visit the factory's private museum). The final stop is *Den Permanente*, where a juried exhibit of handmade and industrial crafts is all for sale.

Both excursions begin at Copenhagen's City Hall Square. The social tour departs at 9:15 A.M. Monday through Friday; the industrial arts tour leaves at 1 P.M., Monday, Tuesday, and Thursday. Each costs about $7.25.

Outside Copenhagen some Danish cities participate in the "Meet the Danes" program: You spend an evening in a private home. For details, write to the Scandinavian National Tourist Office, 3600 Wilshire Blvd., Los Angeles 90010. □

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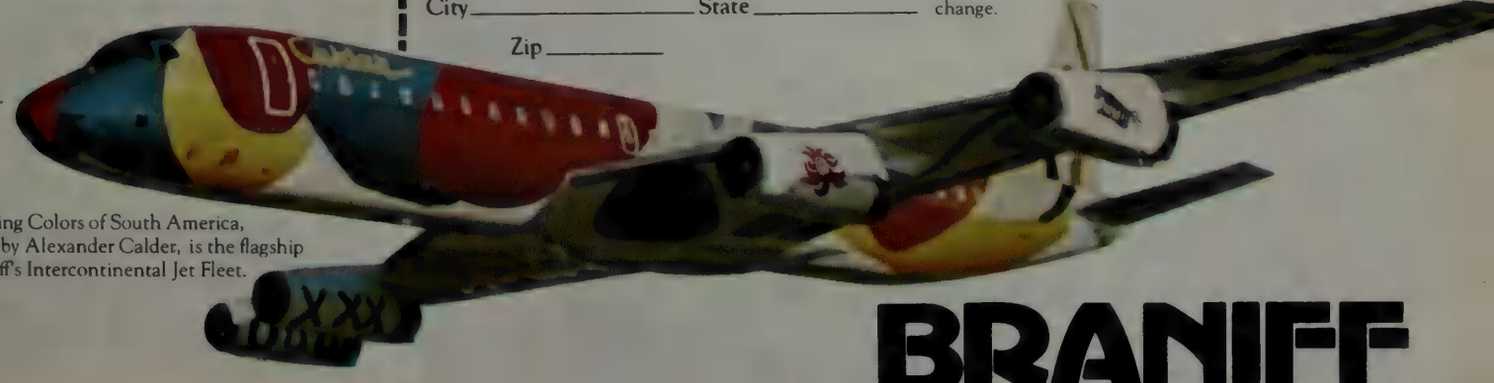

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MICHAEL SPEC

Steam beer brewery *is bustling and fascinating for beer fans, wet and misty for workers. Here, kegs are washed down*

Steam beer... the last brewery

San Francisco faced a fearful predica ment in the 1850s: a beer drought. Brew ing the traditional lager beer require ice, which had to be shipped in a increasingly outrageous cost. Tacklin their dilemma, some residents develope a unique method of brewing at highe temperatures. The new brew, darke than lager, was christened "steam beer from the hissing sound the kegs mad when opened.

Today visitors to San Francisco can tou the only place where the drink is stil made: The Steam Beer Brewing Com pany, home of Anchor Steam Beer an America's smallest brewery. The half hour tour begins in a tasting roon stuffed with beer memorabilia, and fron there traces the brewing process, whicl closely follows the original methods Afterward, visitors can quaff a free glas of beer or the more bitter steam porter

Anchor runs two or three tours for a dozen people each week. Call (415 863-1495 to make necessary reserva tions—at least a week in advance. Hour are 9 to 5, Monday through Friday (Two warnings: Children are discour aged from visiting, and the slippery floors and stairs can be hazardous fo older visitors.)

The brewery is at 514 Eighth Street (between Bryant and Brannan). Going north, take Interstate 80 to the Seventh Street exit, turn left off the exit, then left on Harrison and left on Eighth; heading south on Interstate 80, take the Eighth Street exit. □

thrill to fire-walking. Devotees walk a fiery pit as penance, emerging unscathed.

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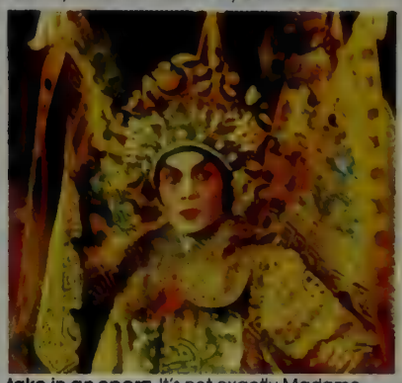

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an-shaped intaglio *north of Blythe etches 140 feet across desert floor. r scale, fence posts are 4 feet tall*

IKE EASTVOLD

Animal figure *(seen from the air) has been fenced to protect it from the tracks of off-road vehicles*

Intaglios . . . north of Blythe, southeast of Needles

orth America's greatest collections of aglios—giant figures scraped in the sert floor by prehistoric people—lie ong the Colorado River at more than dozen sites between Lake Mead and ma, Arizona.

ttle known and largely unprotected, ese geometric shapes, human (or god) rms, animal figures up to 175 feet long, d mazes (the largest is 10-acres) are ong the rarest types of art left by e prehistoric peoples of California and izona.

ey're reminiscent of the intaglios in ru's Nazca desert that won interna- nal attention in the controversial ovie *Chariots of the Gods*.

ow you can visit two sites in Califor- a: a half-dozen figures clustered 17 iles north of Blythe and a maze 13 iles southeast of Needles. Both have en fenced (by volunteers and govern- ent agencies) to prevent further dam- e from off-road vehicles, such as the heel cuts visible in the aerial photo- aph at right above.

her sites will be opened to the public en and if they are protected.

o interpretive signs exist at either site, d there's no one to answer questions. t viewing these remarkable finds on a rk desert day can give you an impres- e glimpse into a little-known culture at flourished here before the Euro- ans arrived.

How intaglios were made

The Indians simply scraped out forms in the desert's gravel crust, exposing the lighter-colored soil, and piled the gravel so it outlined the figures. Over the years the figures developed their own patina, or desert varnish. Some are so old and redarkened they can barely be seen from ground level.

The Blythe figures are clearly visible. They include human shapes, spirals, and four-legged creatures with long thin tails, ball-like feet, and open mouths. Their origins and meanings are obscure.

Some desert archeologists believe they may have been part of the Yuman-speaking people's creation myth. The animal pictured above may be *Numeta* —a supernatural being created at the beginning of the world and invested with great power by *Mustam-ho*, their creator-god. Numeta had at least two forms —human and cougar; these are consistently paired at the Blythe site. Any man who dreamed of Numeta was believed to gain hunting skills and other powers.

Blythe's intaglios sit near a major Indian trail that led to the Pacific Coast. Small cairns visible near some of the figures may be shrines that grew as each Indian passed, adding a rock as a symbolic offering.

To see these intaglios you'll have to do a little walking. The turnoff is 17 miles north of Interstate 10 in Blythe, along

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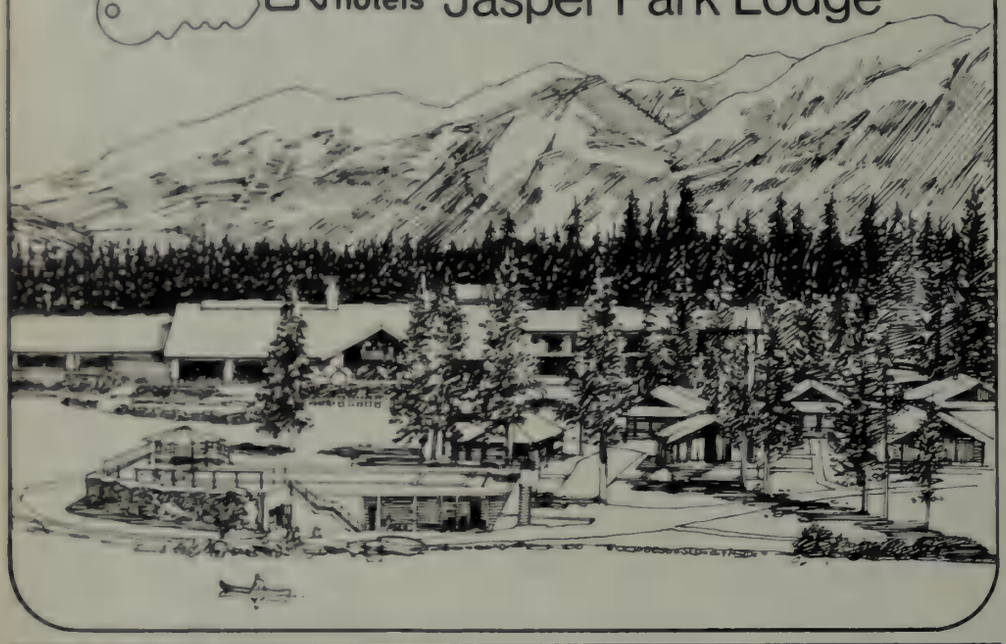

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U.S. Highway 95 (Intake Boulevard). At a roadside stone marker announcing "Giant Desert Figures" turn left, following a dirt road west ½ mile to the first turnout. About 150 yards north you'll see two sets of fenced intaglios.

To find the finest group, continue driving west a short distance until your car crests a rise. From there it's a ¼-mile walk south from the road, across a desert wash and up a small mesa.

Topock Maze . . . a purification ritual?

Only 10 acres remain of the 18-acre Topock Maze, locally called "mystic maze." Not actually a maze, it's comprised of parallel windrows 3 to 4 feet apart and 6 to 8 inches high running in several directions, sometimes meeting at angles.

Some archeologists believe it played a purification role for the living and dead in ancient Mojave culture. A populous and powerful people, the Mojaves also were great travelers, capable of running great distances—the best possibly 120 miles a day, crossing desert trails to the coast to trade or visit friends.

When returning from a journey they may have run through these rows to purify themselves before reentering their own land (which they considered sacred). After cremation, souls of the dead were thought to pass through the maze, purifying themselves from earthly entanglements before being allowed into the next world.

From Needles, follow Interstate 40 southeast to the Park Moabi exit; turn right. You'll be on an embankment, driving south along a gravel road. Go about ½ mile to its end. Turn left, following another gravel road; bear left at a Y. In about 200 yards, turn left into a small parking area at the maze.

See ancient art from high above

If you'd rather see these intaglios by air, you can charter a single-engine plane and pilot for $25 to $65 an hour (up to three passengers). Before hiring one, though, make sure the pilot knows where these sites are.

Some of the following Arizona air services can be reserved with an hour's notice, but it's wise to make arrangements at least a week ahead: Hess Aviation, Box 1169, Bullhead City 86430, (602) 754-2444; Lake Havasu Air Service, Box 2125, Lake Havasu City 86403, 855-4945; Quality Aviation, Box 35701, Lake Havasu City 86403, 855-6739; Aero International, 2095 E. 32nd St., Yuma 85364, 726-4715.

For other air charter options, consult the yellow pages of nearby towns.

If you're interested in helping fence other sites near Blythe in April or May, send a self-addressed, stamped envelope to Desert Watch, Sierra Club, 2410 Beverly Blvd., Los Angeles 90057. □

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Opening soon in Los Angeles a new home for the skeletons of Ice Age animals

Ice Age *landscape mural backdrop display of a saber-toothed cat famil*

Steel openwork *seems to float over landscaped central court, set below outside ground level. All display halls open from here*

NORMAN A. PLATE

Entrance *is below park's landfill surface. Above are walks and a relief sculpture of Pleistocene animals*

The world-famous fossil remains of Ice Age animals tha were found in tar pits in present-day Los Angeles are comin back to the site of their death. They'll soon stand on display i the new George C. Page Museum of La Brea Discoveries, al most directly above the engulfing tar in which they onc struggled.

This will end decades of disappointment for visitors to Han cock Park who saw little at the tar pit site. For 60 years th displays—mostly assembled skeletons—have been acros town in Exposition Park at the Museum of Natural History

The new building is so considerate of its park site it actually seems to increase open space. Its sides are lawn, shaped lik a pyramid with its top cut off to form a promenade. Fron there you can look down past an openwork steel frame int a sunken atrium filled with subtropical plants.

A small plaza indicates the museum entrance. You'll start th tour in either of two small theaters for a film briefing on th tar pits; it will be shown at 10-minute intervals.

The exhibits beyond are set out in surprisingly lofty halls considering the building's low profile. You'll discover tha the finds were not dinosaurs but mammals and birds caugh in the tar from about 40,000 to 12,000 years ago. Mos became extinct about 10,000 B.C. They are shown as skeletons or lifelike models or in murals: saber-toothed cat, Americar lion, giant sloth, imperial mammoth, and others. The only human remains found, those of a woman who fell or was thrown into the pits some 9,000 years ago, are also on show.

Designed for visual impact, the displays have a minimum of words to read. Epoxy-and-steel joinery enables the skeletons to hang like giant puppets, without the old plumbing-pipe supports. Even the half-ton skull of a great imperial mammoth, with its curving 10-foot tusks, hangs from steel wires.

The museum is due to open April 13. Watch your newspaper for an announcement. Admission will be free. Hancock Park is on Wilshire Boulevard between Curson Avenue and Ogden Drive, just east of Fairfax Avenue; museum telephone (213) 933-7451. □

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Imposing ruins *amid broad lawns the site of Glastonbury A*

In King Arthur country, the Glastonbury ruin

Arthurian legend hangs closely Britain's West Country, touching n sites with an enticing mixture of r and fact. But the two converge r closely at Glastonbury in Som County: King Arthur may have b buried here.

The great attraction is the ruins of C tonbury Abbey—a hallowed Chris shrine said to have been founded aro 60 A.D. by St. Joseph of Arimathea, arrived bearing the Holy Grail. Rem of Arthur and Queen Guinevere w reportedly discovered in the anc abbey cemetery in 1191, and reburie a spot still marked on the grounds.

That Arthur lies here is supported several factors: High waters in Ron times may have made Glastonbur virtual island—the Isle of Avalon wh Arthur was buried. Historians consi the sacred cemetery an appropriate s for a 6th-century general or chiefta which the real Arthur had been. A artifacts discovered here in 1962 d the burial claim back to at least the 1 century.

Glastonbury is 215 kilometers (1 miles) west of London, about a 3-h drive. You can visit Stonehenge on way, and the limestone cliffs and ca of Cheddar Gorge and the histo Roman spa of Bath are nearby. In Gl tonbury, you might want to stay at George and Pilgrims Hotel, built 1475 for pilgrims visiting the abbey.

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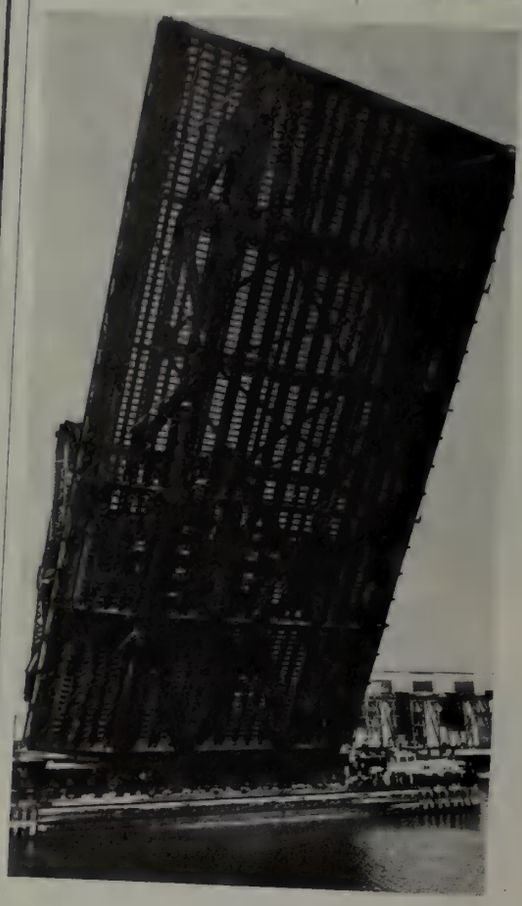

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To see the Mission Channel bidges rise on the Sundays, be at the Third Street Bridge at 11 A.M.; the Fourth Street Bridge opens ½ hour later. City workers will be on hand to answer questions. Two nearby restaurants—Blanche's and The Wharfside—are closed weekends, but both have decks for picnicking.

To reach the Third Street Bridge, take U.S. 280 north until it ends; turn right on Third and drive one block. (Turn right off the Fourth Street exit to go directly to the Fourth Street Bridge.) □

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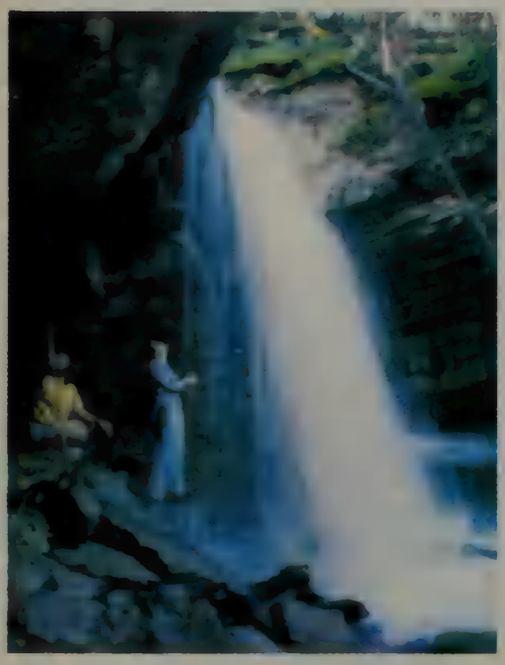

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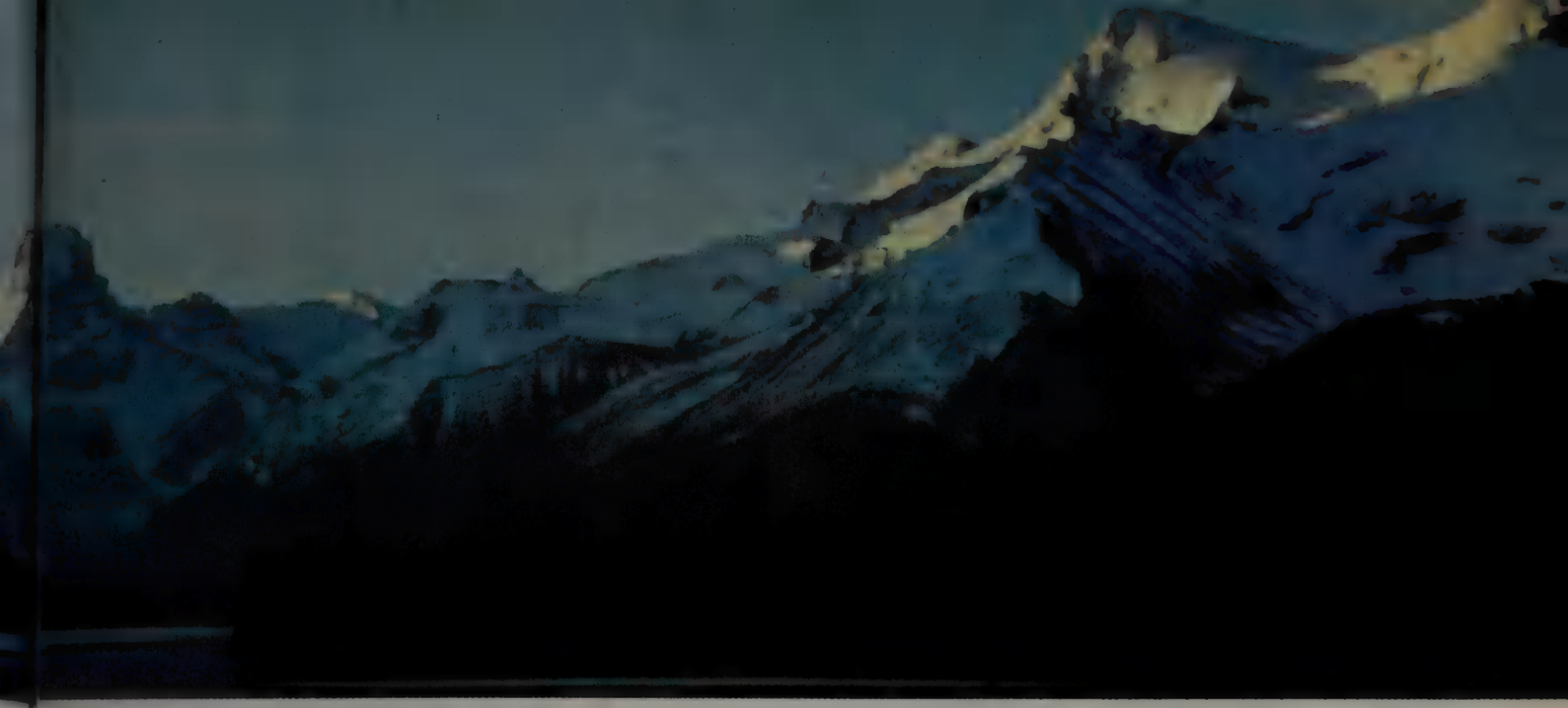

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Primavera Sheets - Spring flowers play gaily over a black background. 50% Fortrel® polyester, 50% cotton, no-iron percale. Flat or fitted.

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Full	**12.00**	King	**20.00**
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Primavera Bedspread - Beautifully quilted and machine washable. Of Fortrel® polyester and combed cotton Ultracale. Double-needle quilted to plump Fortrel® polyester fiberfill. Nylon tricot backing.

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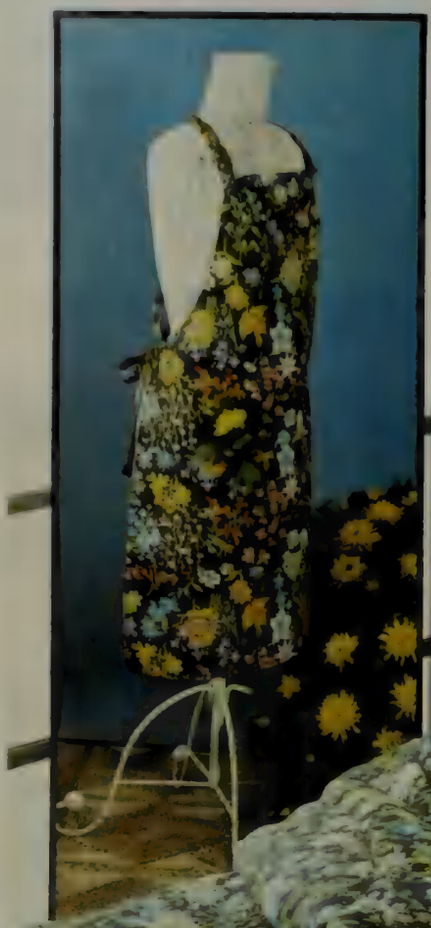


ORDER NOW! Call toll-free 24 hours a day: in San Francisco, 468-4444; elsewhere in Northern California, 800-792-0800.

MICHAEL SPECTOR

Remodeled *livery stable dates from 1911, when major face lift joined and reinforced two earlier structures. Now it houses shops and a coffee house*

Colorful signs *blend with rustic interior of restored mill*

Yesterday is back on scene in riverfront Petaluma

riverfront district of Petaluma—35 s north of San Francisco—once bus- with shipping and grain mill traffic, then fell into decline as the port iness disappeared. Now, the first se of a restoration project has ught new life to some of the stylish buildings in the heart of town.

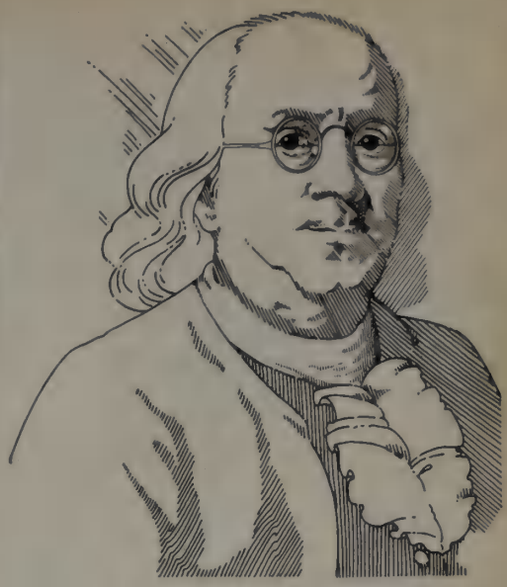
center of the restoration is the at Petaluma Mill, a two-story feed built in 1876 that now houses over crafts and antique shops and restau- ts; soon there will be a dinner theater auction house. The structure's 2- t-thick stone walls have been rein- ced and the interior brightened with lights and windows. The mill build- sits next to the water at the foot of Street, just off Petaluma Boulevard ere is free parking next door).

oss the street at 29 Petaluma Boule- d is the Lan Mart building, a smaller e and brick structure that evolved livery stable, saloon, and social hall. ne dozen specialty shops in the 1911 lding include a crystal store (some sual glassware), jewelry store, and ee house.

r restored iron-front buildings line foot of Western Avenue, one block west on Petaluma Boulevard; they're worth the short stroll for a look.

Both Lan Mart and the mill are open daily from 10 to 5. To reach the downtown historic area, take the Petaluma Boulevard exit westbound from U.S. Highway 101. □

Feed and grain *mill was once a key force in Petaluma's economy. With its new shops it may be again*



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You may be as surprised as Ben Franklin that there is indeed something better than the bifocal. A new lens called Varilux 2.* The first significant step beyond the bifocal in 200 years. Designed to provide a full range of vision for those who would ordinarily wear bifocals.

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sun

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*Varilux 2 is available only in California, Oregon, Washington, Hawaii and Alaska.

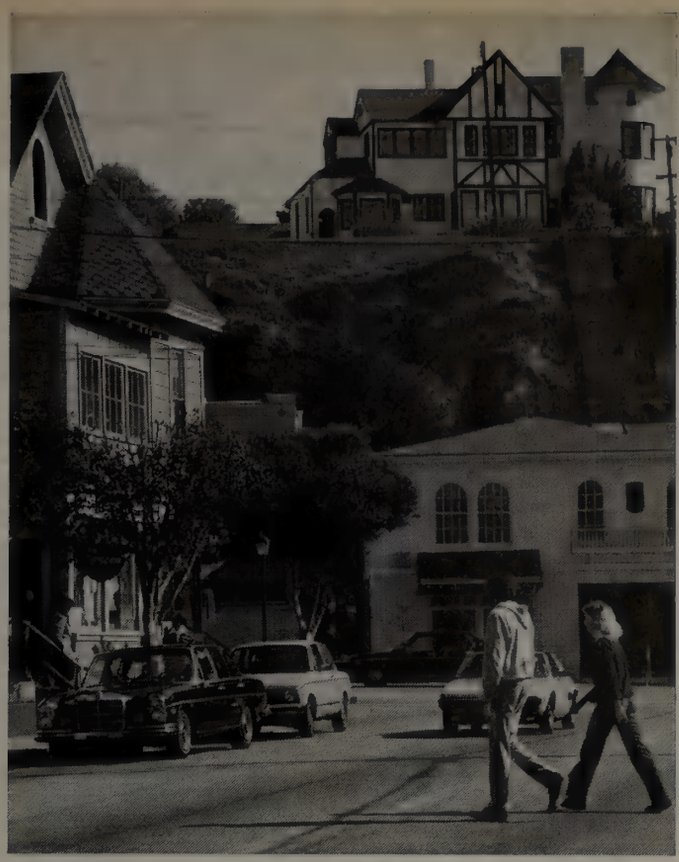
Catching a wave *occupies surfers east of the beach breakwa on most days of the year. Weekends bring out artists capture the scene. Main beach is to the rig*

From Depot Hill *cyclists and walkers can look oceanward for otters, seals, sea birds. Cliffs of West Hill are behind*

That's the one! *Two-toned straws from Ecuador and other hats ($3 to $25) line walls at Year of the Rat, 107 Stockton Avenue*

Homemade jams, *jellies, chutneys are for sale at The Herb Patch in old farmhouse complex at 911 Capitola Avenue. There's a crêpe restaurant outside*

JERRY FREDRICK



Grand house *from resort days stands at top of 86 steps up Depot Hill. Oldest building downtown is Hihn Building (left) at Capitola and Monterey avenues; inside are new shops*

rchids and ferns *fill tiered shelves at Shaeffer's tropical gardens, 1220 41st Avenue*

The rediscovery of Capitola

This 19th-century resort is coming back with new shops, restaurants, galleries, and new spirit

Inviting surf, clifftop views, and the mild Monterey Bay climate were the big attractions when Capitola came to life as one of California's first beach resorts in the late 1800s. For the same reason and some new ones, this compact community, long overshadowed by Santa Cruz to the west, is drawing new fans.

Growing numbers of attractive shops, galleries, and restaurants—and a new community consciousness—have encouraged merchants to issue their first map/guide to the town this month. Pick one up at any shop. It will come in handy as you spend a day or weekend exploring the town. Plan to walk or use a bike; most attractions are close together and traffic gets congested.

To get there from State Highway 1 southbound, exit after the sign saying "Capitola—next right"; northbound, exit at the "Capitola/Soquel" sign. Go seaward on Bay Avenue, which forks into Capitola and Monterey avenues. Both lead to downtown Capitola, jammed onto a few flat acres at the mouth of Soquel Creek, between Depot Hill to the east and West Hill.

The beach. Capitola Beach State Park offers some of the calmest swimming waters on Monterey Bay; it's a popular put-in for scuba divers. At times, low tides leave the mouth of the river dry, creating a lagoon. There are rest rooms at the east end of the beach.

The Esplanade. Curving along the beach east of the river, it once led to the 150-room Capitola Hotel (built 1895, burned 1929). Today it has some new restaurants (look in The Bandstand to see photographs of the old hotel). Notice their new wooden signs carved by local craftsmen. Hold-overs from more honky-tonk days include a boardwalk-type game hall. Buildings at the west end will soon be remodeled.

The wharf. Extending off Wharf Road at the west end of the beach, it's a popular spot to drop a line for perch and flounder. There are boats and tackle for rent, and hoists for launching. Recently sold to private owners, it's now being shored up and widened. This summer

Tiny red funicular *takes diners down lushly planted slope to Shadowbrook Restaurant on west bank of Soquel Creek*

JERRY FREDRICK

Suzanne's, *at 427 Capitola Avenue, serves dishes of northern Spain*

there may be sailboats to rent.

Capitola Venetian. This Mediterranean-style cluster of stucco buildings between the wharf and the river was built in the 1920s as California's first beach-front condominiums. It's Capitola's newest motel; units begin around $25 a night for two. Look at the "gallery of doors" carved by artist Alan Thorpe with scenes inspired by music, art, or literature. Luis Villareal carved the motel sign; walk by his studio at 107-B Stockton Avenue to watch him work.

Depot Hill and West Hill. On Depot Hill a path leads along the ocean cliff (Grand Avenue) for about ½ mile. On Grand and inland streets you'll see some Victorians; 106 and 108 Central Avenue are textbook examples of carpenter's gothic cottages. Along Cliff Avenue (west edge of the hill) are some of the best old houses and the best views across town. Concrete stairs lead down from Cliff to town level.

On the opposite side of town under the train trestle, stairs lead from Wharf Road up to West Hill; a path leads below hilltop houses. Stop at benches along the way to watch wharf activity.

Soquel Creek. A path up the east bank passes tiny cottages. Note the tall windmill houses under the trestle.

Capitola Avenue. Here's where you'll find most of the new shops and restaurants—along about a mile from nè the beach out to the Country Court cor plex near Highway 1. Shops sell arts ar crafts, antiques, plants, herbal lotior clothing, books, coffees, teas, kitche ware, toys, imported artifacts.

Just north of the trestle you'll see a r schoolhouse, now the Capitola Museur It has photographs and mementos of tl early days (if it's not open, ask next do at the new City Hall).

Tropical gardens. Drive inland on Wha Road to Capitola Road; go left to 41 Avenue, then left again to Shaeffer's 1220. Visit this month to see 75,000 80,000 orchid blooms. You can bu cymbidium, lady slipper, and phalaeno sis orchids, plus many kinds of ferns.

Farther out Capitola Road at 2545, a tually in Santa Cruz, Antonelli Brothe Begonia Gardens has tuberous and f brous begonias June through October, particularly large selection of ferns an house plants year-round.

Capitola events. Biggest of the year is th annual begonia festival September through 11. For a schedule, write Begc nia Festival, Box 501, Capitola 9501(

On April 16 visitors can watch the Cap tola Criterium bike races beginning at A.M. Start/finish point is the downtow corner of Monterey and Capitola ave nues. A good place to watch is the cor ner of Fanmar Way and Terrace Way.

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The Hawaiian Islands. Stop all thoughts of anywhere else for a moment. Think Hawaii. You see beautiful islands and palm trees and beaches with surf lapping the shore. And there are beautiful tan people and people with beautiful tans.

Typical.

But that's not what Hawaii's really all about. Hawaii is where East meets West under the best conditions in the world. And that just might make for the happiest people-mix on earth. It's here in Hawaii that cultural ties to other times and other places are manifest throughout the islands. Each island has its own history, its own beauty, its own inviting aloha spirit and ways.

Stop in Hawaii, the Big Island of the multi-island Hawaiian Fleet. Hawaii is not only large, it's high: for a stopper of a scene, look up at snowcapped Mauna Kea on a moonlit night.

Maui. Stop at Maui and you're stopping at what was once the brawling whaling capital of the Pacific. The restored whaling town of Lahaina features a string of waterside boutiques, eateries and quaint shops. Famed Kaanapali Beach and its resorts are right down the road.

Kauai — the Garden Isle. Stop here and the first thing that stops you will be the variety: scenic distractions beyond belief.

Molokai, the Friendly Isle. It's off the beaten path; relaxing, fishing and hunting are exceptional.

Lanai. The pineapple capital. It's a great place to take a vacation from your vacation — just the two of you.

Oahu is the Gathering Place, first stop on most itineraries. It's Honolulu and Waikiki; it's sun by day, swing by night. But most of all, it's one of the really sophisticated, worldly and wonderful places on earth.

All we're really saying is this: when you've seen one island, you've only seen one. So come visit us!

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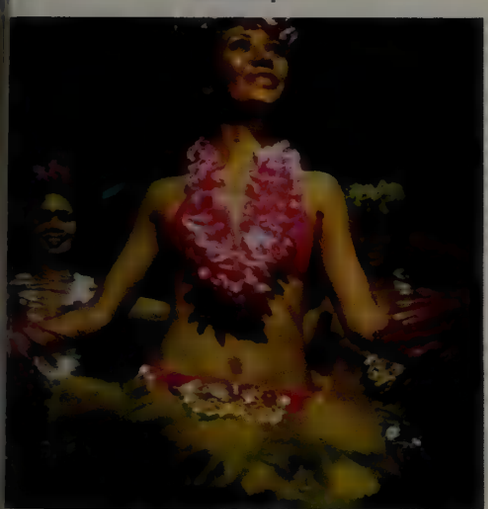
Nonstop

Whistle stop

Last stop

A sunny *midmorning pause for orange juice at Gelderland restaurant*

Route description *in hand, hiker studies a trail marker in a nature preserve*

Dutch breakfast *consists of tea or coffee, bread, jam, cheese, cold meat, and a soft-boiled egg*

Three to six-day Holland walks ... price includes rooms, all meals

In Holland you can hike for three to six days at your own pace through ever-changing countryside and out-of-the-way small towns without worrying about hotels or meals. Tourist associations (*verenigingen voor vreemdelingenverkeer*, or VVVs) offer prepaid "hiking packages" in the provinces of Gelderland and Overijssel in east-central Holland. The cost of about $18 a day includes room, breakfast, lunch-to-go, and dinner.

She's ending *four-day hike at 16th century town wall of Harderwijk, formerly a Zuider Zee port*

You go by train or regional bus from any big city to the starting point of your hike. The VVV provides a day-by-day route description in English ("pass the traffic sign reading Maximum Speed 40 KM") and a map—some are free, others cost a dollar or two. Daily distance varies from 7 to 12 miles as you walk from one small hotel or country inn to the next, where the VVV will have reserved a room for you. Most have hot and cold running water and a bathroom down the hall; a few have private facilities.

Hotels are quiet, used by the Dutch mainly for one- or two-week vacations of rest and outdoor exercise. Guests tend to whisper in the dining room, although afterwards in lounge or terrace outside they'll meet in convivial chat. Most are likely to speak at least some English.

You'll be served dinner as well as breakfast in the hotel, and receive a packed lunch for the road—probably sandwiches and fruit. A *Sunset* editor found excellent three-course dinners and pleasant service (serving dishes on the table, tablecloths and napkins) waiting at the end of each day's walk. For other refreshments en route you can stop at coffee or pastry shops, or local markets. You won't find many open evenings or Sundays.

You can carry personal belongings in a day pack; the VVV will rent you one for about $1 a day. You return it to a VVV office at your destination.

This year, 10 hiking packages are available, lasting three to six days. The walk where you're likely to be most alone connects Arnhem and Harderwijk—44 miles across Gelderland "in the footsteps of Otto II of Gelre," a 13th-century feudal count. His trip through dense forests with wild animals and bandits took six days. Now you walk it in four days on tranquil well-marked paths, through beech and pine woods, over heaths and sandy dunes. Occasionally you pass farms or walk underneath a freeway overpass.

You can also go "in the footsteps of medieval Hanseatic merchants"; or through landscapes of wide meandering rivers, undulating farm and forest land; or across the absolutely flat, typically Dutch land of Northwest Overijssel, with pastures, waterways, and *vennen*—marshes that were dug for peat and became lakes.

For a brochure on all hiking packages, write to VVV Gelderland, Stationsplein 45, Arnhem; allow six weeks for a reply. In spring and fall you can probably book the hike of your choice. In summer, because the hikes are popular with the Dutch, the hotels of your first choice may be full, and you may have to settle for an alternate. □

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Plymouth

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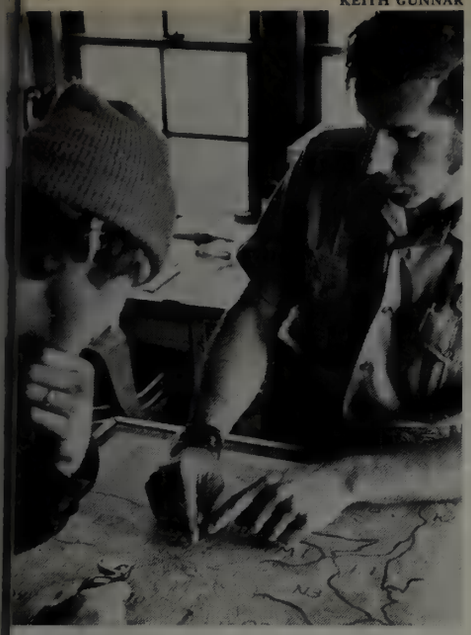


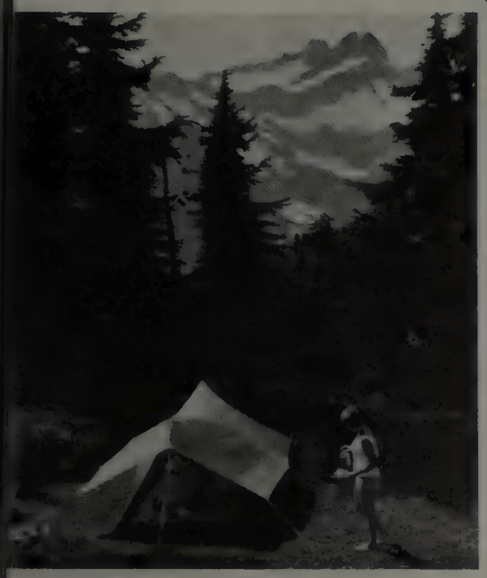
ount Rainier *ranger uses special map explain cross-country zones*

Hiking challenge . . . cross-country

ooking for a way to avoid some of the estrictions on backpacking in our na-onal parks? Consider leaving the trails nd striking out cross-country. For those ho can handle the challenge, this kind f backpacking offers the advantages of reater freedom and the chance to enjoy olitude in unspoiled surroundings.

ut it's not for everyone. You must be killed in the use of map and compass nd minimum-impact camping tech-iques. You should already have some xperience in off-trail travel, and know ow to survive in the wild. Often, camp-res are not permitted and you're re-uired to camp in a different place each

(Continued on page 84)



Far from *nearest trail, camper enjoys solitude of North Cascades National Park*

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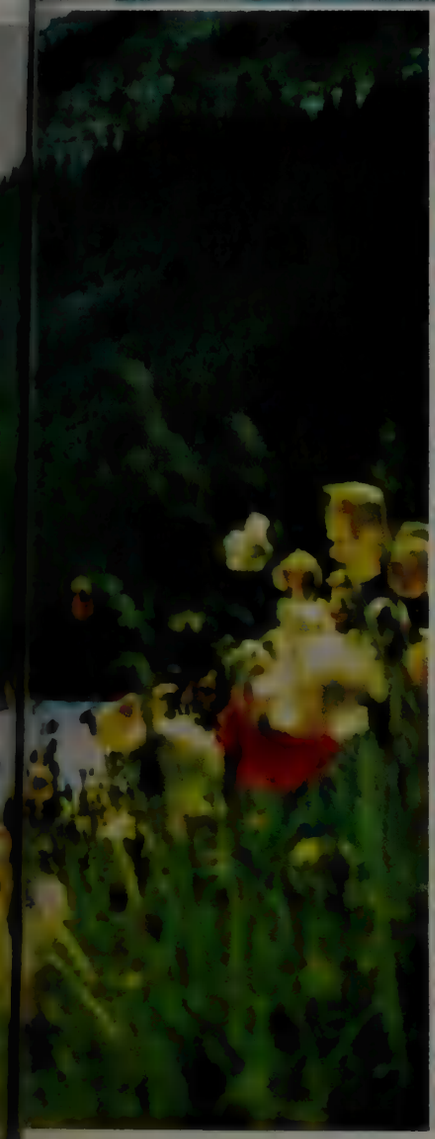
Canada

The splendour of a mountain lake in the Canadian Rockies

A friendly moment with the Royal Canadian Mounted Police



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night. In some desert and high mountain environments, off-trail hiking can be extremely hazardous.

But here's what cross-country backpacking can help you avoid. Many national parks now require that you reserve in advance your right to a designated back-country campsite; popular sites are often booked for the season by May. In other parks you must face the uncertainty of applying for space upon entry on a first-come, first-served basis. Still others impose flat trailhead quotas, forcing some late-arriving hikers to change plans at the last minute.

These restrictions are necessary to protect natural environments from overuse, and most hikers appreciate their need. But they can also complicate vacation planning and take the spontaneity out of weekend wilderness experiences.

The cross-country solution. Typically, hikers who camp a prescribed distance (usually about 1 mile) from a park trail don't need a campsite reservation (although a back-country permit is always required). Even where use quotas are imposed, they are frequently much less stringent and more flexible for cross-country hikers who will not be overnighting at high-demand campsites.

See a ranger. Since cross-country regulations vary widely from park to park, it's essential that you first get maps and regulations for the park you intend to visit. Consult with a park ranger, either in advance of the trip or on arrival at the park. He can size up your cross-country skills and direct you to appropriate areas.

Some parks do not permit cross-country hiking or camping—Haleakala National Park in Hawaii and Point Reyes National Seashore in California, for example—but most encourage it in some form. Here are some popular areas that do.

Alaska: Glacier Bay National Monument, Katmai National Monument, Mount McKinley National Park.

Arizona: Grand Canyon and Petrified Forest national parks, Glen Canyon National Recreation Area.

California: Kings Canyon/Sequoia, Lassen Volcanic, and Yosemite national parks; Death Valley and Joshua Tree national monuments; Whiskeytown/Shasta/Trinity National Recreation Area.

Colorado: Rocky Mountain National Park; Great Sand Dunes and Dinosaur national monuments.

Hawaii: Hawaii Volcanoes National Park.

Nevada: Lake Mead National Recreation Area.

Oregon: Crater Lake National Park.

Utah: Arches, Bryce Canyon, and Canyonlands national parks.

Washington: Mount Rainier, North Cascades, and Olympic national parks.

Wyoming: Grand Teton and Yellowstone national parks.

For park brochures, write to Public Inquiries Office, National Park Service, Washington, D.C. 20240. □

Ford Pinto. The best-selling small car in America.

(wheelbases under 100 inches)

Ford Pinto 3-Door Runabout

Check the facts:

1. Low price plus . . . Pinto starts out with a low price. But that low price includes a powerful cast-iron engine for climbing steep hills, passing quickly, and entering highways confidently. Pinto also has a wide track to help give it a comfortable, stable ride. And every Pinto has a sporty suspension system and rack-and-pinion steering for precise, responsive handling.

2. Excellent mileage.

39 mpg highway	27 mpg city

EPA estimates: With 2.3 liter engine, manual transmission, 2.73 axle without air conditioning, power steering and power brakes. Your actual mileage will vary depending on your car's condition, optional equipment, and how and where you drive. California and high altitude ratings lower.

3. Scheduled maintenance reduced $353.

- Over the past four years, more than 75% of the scheduled maintenance requirements on Pinto's 4-cylinder engine have been reduced or eliminated. That's an estimated reduction in costs of $353.
- So today, the base Pinto's average scheduled service is estimated at only $186 for the first 50,000 miles.

Based on Ford's Service Labor Time Standards Manual, ■ $13.50 labor rate, and suggested retail parts prices in effect 8/31/76.

4. High resale value.

Pinto consistently has high resale value. Compare Pinto's resale prices to Vega's, for example:

Used Car Retail Prices, January 1977

MODEL YEAR	VEGA	PINTO	Pinto Advantage
1973	$1,264	$1,489	$225
1974	$1,572	$1,861	$289
1975	$1,958	$2,306	$348

Source: National Average N.A.D.A. Used Car Guide

It's easy to see why most small cars have a tough time beating Pinto's built-in and lasting value.

And more...

- **Durable and reliable 2.3 liter cast-iron engine.**
- **Roomy, comfortable interior.**
- **Exciting options.**
- **Rugged unit-body construction.**
- **The best rust and corrosion protection system in Pinto's history.**
- **More than 5,500 Ford Dealers.**

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with new all-glass third door
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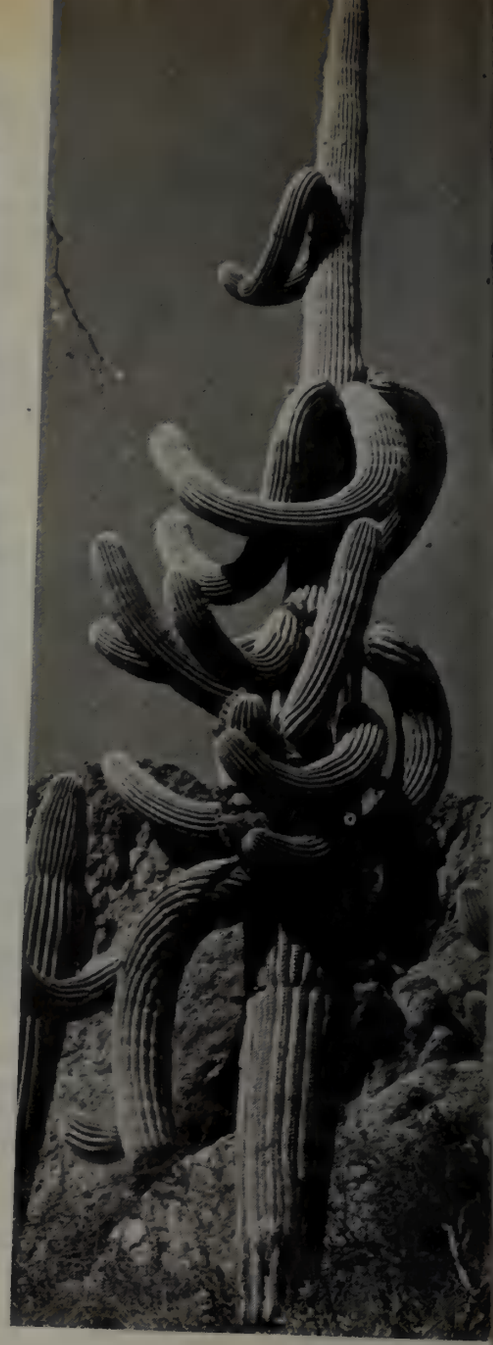
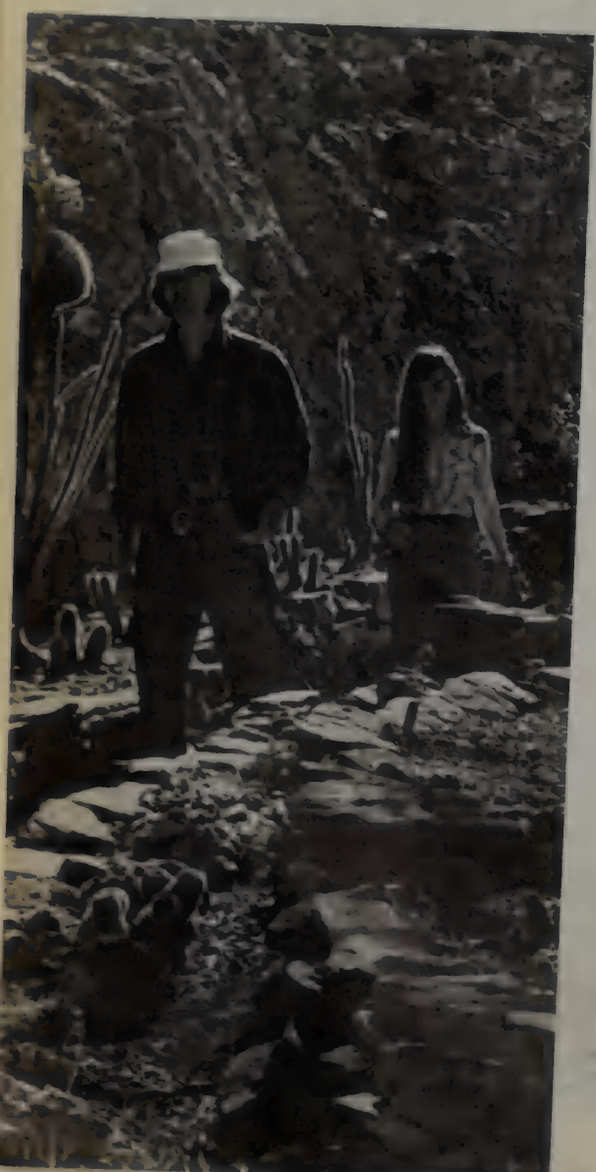
Weathered knobs *of Magma Hill are caught by the late morning sun as three visitors from Germany pause along Picket Post Trail to look down at Queen Creek*



Twenty-arm *saguaro stands guard along the way; it's estimated to be well over 200 years old. (The first arms don't come for 75 years or more)*



You can start *the long trail near this series of rocky niches in the main cactus garden*

Walking the Picket Post Trail . . . you see the desert landscape close-up

There should be a sign near the main cactus display at Arizona's Boyce Thompson Southwestern Arboretum that says, "The best is yet to come."

Otherwise you could easily miss one of the compound's most enjoyable features: the unmarked 1¼-mile Picket Post Trail that loops away from the arboretum's main display area and takes you through a picturesque desert landscape before winding back along a stream.

The arboretum is located about 52 miles east of Tempe on U.S. Highway 60 (3 miles west of Superior). A field museum of the University of Arizona, it is best known for its collection of arid-land vegetation, displayed near the parking area. Sections are individually signed and laid out for easy viewing: trees and shrubs native to this part of the north Sonoran desert, an Australian area, cactus, yucca and agave. (On April 9 and 10 you'll also find a major sale of desert plants as described elsewhere in this issue.)

Picket Post Trail. While not signed, this worthwhile hike is marked on a 5-cent map available at the arboretum office. From the far end of the cactus garden you continue east past a dam and reservoir and through some dramatic rock formations. Look up to the heights on your left to see Picket Post House, founder William Boyce Thompson's

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Chevy Blazer. Blazer can carry up to five with available seating, hold up to 44 cu. ft. of gear. All Blazers have a steel front half-top. A removable fiber-glass-reinforced plastic rear top or convertible folding rear top is available.

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CHEVY FLEETSIDE PICKUP

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A glance up *from trail gives this view of founder Thompson's old home*

The colonel and his castle

Colonel William Boyce Thompson was one of those make-a-million, lose-a-million mining entrepreneurs who enlivened the history of the West. He developed many mines, including the Magma Mine in Superior. And far ahead of his time, he worried about man's impact on the environment.

As the guidebook says, "Col. Thompson deplored the careless destruction of vegetation, particularly of forest and grazing cover. He noted that dry-climate plants, especially, had received little attention."

So he established and endowed the Boyce Thompson Institute for Plant Research in New York, and in 1927 founded the arboretum near Superior for the study of arid-land vegetation under natural conditions.

Colonel Thompson and his family moved into Picket Post House in 1923. Following his death in 1930 and the family's departure, the house fell into disuse and was partly vandalized. It's now owned by the W. Z. Rose family, who will lead visitors on an informal, chatty 15-minute tour for $1 apiece. You'll see the house's odd assortment of bric-a-brac and early painted wood furniture, and from a high rock just outside the living room you can look down on the arboretum trails.

The entrance to Picket Post House (look for a sign saying "Castle Tour") is ½ mile east of the entrance to the arboretum. There are no set hours; if the Roses are home and not busy, they'll be glad to show you around.

Where Queen Creek *cuts close to Magma Hill, the trail briefly perches over the streambed. Here you see netleaf hackberry and cottonwood trees*

mid-Twenties winter home (the rock-bound structure is open for tours; see above).

The trail meanders down to a natural streamside habitat where birds sing in dense stands of mesquite, cottonwood, and willow. Skirting a cliff, you follow Queen Creek Canyon to an old settler's cabin that was used by Colonel Thompson's grandchildren as a playhouse (you're welcome to look in; it contains a kitchen stove and a venerable Singer sewing machine).

Then the Picket Post Trail joins Canyon Trail, which leads you back to the main arboretum complex at the pine, olive, palm, and eucalyptus groves near the parking area.

Visitors to the arboretum in April should see many desert plants in bloom: bottlebrush, hedgehog cactus, mesquite, ocotillo, prickly pear, and rockrose. Rainfall permitting, more color could be supplied by wild lupine, desert marigolds, penstemon, and spiderwort.

Except on major holidays, the arboretum is open daily from 8 to 4:30; admission is 50 cents (free for children under 14). You can picnic on the grounds under lofty Arizona sycamores. Besides the trail map, the office stocks a useful 20-cent guidebook. While you're there, take a few minutes to look over the two adjacent greenhouses, one devoted to cactus, the other to succulents other than cactus. □

Red-flowering cholla, *a Sonoran desert native, invites a close-up picture in the main cactus garden. At right is a stubby barrel cactus*

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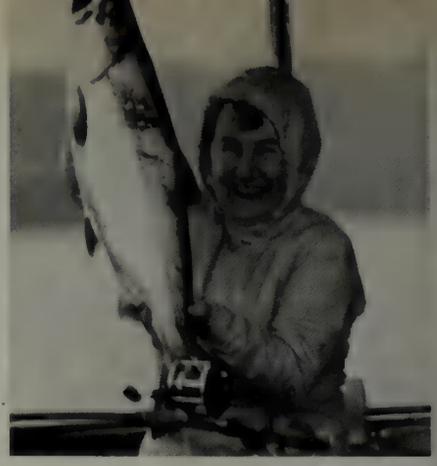
For Seattle visitors... the early morning salmon fishing adventure is getting better



Fifteen-pound *resident Chinook was caught at morning's first light*

DOUG WILS

Just 15 minutes *from its berth, charter boat trolls for resident salmon on Elliott Bay off Seattle's waterfront*

Puget Sound's salmon fishing secret is getting out: Its population of resident salmon (as opposed to migratory fish) is now so abundant that it supports a small fleet of charter boats that will take you fishing *year-round,* not just in the summer when the oceangoing salmon return.

This gives Seattle-bound travelers a great new opportunity to hook onto one of these prized game fish. If you're budgeting time, you can avoid the long round-trip drive and other complications of a major outing to the ocean. Puget Sound charter boats operate from Seattle and nearby marinas, fish close-in destinations early in the morning on the sound's relatively calm waters, and return to their berths by midday. You may catch your limit before noon, and be about your business or go sightseeing after lunch.

There are other advantages: Fishing for resident salmon doesn't depend on unpredictable and increasingly regulated migratory runs, so charters can stay in business all year.

And this fishing also takes some of the pressure off the beleaguered oceangoing salmon, already facing a host of environmental threats.

Skipper *demonstrates use of tackle —a level-wind saltwater reel, with 30-pound test—to first-time fishermen*

How the salmon population grew

Marine biologists have long known tha a certain percentage of naturally pro duced salmon fail to leave Puget Sound for the ocean. Instead of maturing fo several years in the Pacific and the migrating back through the sound to na tive river spawning grounds, they spend their entire adult lives in the sound— for reasons not yet fully understood.

But then biologists discovered that smol released from hatcheries later than usua produced a higher percentage of fish that stayed in the sound, and the numbe of residents began to soar. Since the delayed-release program began in 1971 the number of sport-caught Chinook (king) salmon from the sound has more than tripled, and the number of coho (silver) salmon has doubled.

Thus far, in fact, the fish are increasing faster than the fishermen. State experts regard the sound as "underfished," despite the good angling and the small cash reward offered for the return of certain tagged fish. (Returned tags reveal which

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How to find the great camping spots in the West

Finding the right spot means everything when you head outdoors. It can assure you a *great* experience instead of disappointment.

Sunset's new 1977 *Western Campsite Directory*, completely revised and updated, helps you plan the best possible trip. It pinpoints 6,000 campgrounds and RV parks on locator maps, tells all about facilities, fees, attractions, the surrounding country, and boating waters. It gives you phone numbers and mail addresses where reservations are taken.

NEW FOR '77– DISCOVERY TRIPS

A major feature in this new edition gives you ideas and directions for dozens of great discovery trips you can take in the Western states, British Columbia and Mexico — Baja for backpacking, rockhounding, boating, and sightseeing.

It also has a big section on camp food ideas, and provides you with a whole raft of information on backpacks, snow camping, wilderness permits, hunting and fishing regulations, and much more.

You'll find *Campsites* at most bookstores, sporting goods departments, and trailer supply stores in the West. Or if you want us to mail it to your home, send your check in the amount of $3.95 plus 55¢ for postage and handling, total $4.50. *California residents add 24¢ tax.* Mail to: *Campsites*, Lane Publishing Co., 80 Willow Road, Menlo Park, CA 94025.

DOUG WILSON

One of the salmon *they caught that morning is served for lunch in charter boat's comfortable cabin. Skipper's wife baked it in galley stove*

brood stocks are most productive, grow fastest, and survive longest.)

Although abundant, you'll find resident salmon are generally smaller than their oceangoing relatives. Resident Chinook (often called blackmouth) range from 3 to 8 pounds, the coho from 2 to 6 pounds—but 15 to 20-pound Chinook are becoming more common as the resident population matures. The daily limit is three fish. There's no size limit on coho, but Chinook must be at least 20 inches long; smaller fish must be released unharmed.

Where to find a charter

Charter operators provide all tackle and bait, and one even serves you an onboard lunch of fresh-caught salmon. Boats are big enough (20 to 50 feet long) to provide covered cabins for warmth; but since you'll be spending plenty of time outdoors fishing, wear warm clothing—including hat, gloves, comfortable deck shoes, and rain gear.

Fees range from $21 to $26 per person, including all fishing gear. You can save a little by bringing your own bait and tackle, and per-person rates for organized groups go as low as $19. Advance reservation is required three days to two weeks or more before your trip.

Here are operators who fish the sound.

Bendixen Charters, 373 W. Nickerson Street, Seattle 98119; (206) 283-3963. From Shilshole Bay Marina. One 40-foot, fourteen-person boat; $24 per person. Serves salmon lunch at no extra cost.

Laebugtens Fishing Wharf, 16111 76th Place W., Edmonds 98020; (206) 743-2211 or 774-7570. From Edmonds, north of Seattle. Two boats (21 and 24 feet), each holding four persons; $23.

Lloyd's Seacrest Marina, 1660 Harbor Avenue S.W., Seattle 98126; (206) 932-1050, or 938-0676 evenings. From Elliott Bay. Two boats up to 50 feet (capacity of 40 persons); $25, or $19 per person for groups.

Puget Sound Fishing Charters, 1209 Monroe Ave. N.E., Renton 98055; (206) 255-1936. One 28-foot, 6-person boat; $21.

Viking Charters, 2476 Westlake Avenue N., Seattle 98109; (206) 283-9555, or 632-3250 evenings. Two boats (capacity of 20 persons) from Lake Union; $26.

Whidbey Island Charters, Box 775, Oak Harbor, 98277; (206) 675-6666 in Oak Harbor, 622-4085 in Seattle. One 26-foot, 4-person boat in Whidbey Island and San

Washed-down *catch ranges from a 15-pound Chinook to a 2-pound coho. There's no minimum for coho, but Chinook must be at least 20 inches long*

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DOUG WILSO

Hook-out device *allows this "shaker" —an undersized Chinook—to be returned safely to the sound*

Juan Island waters; $25. Can arrange custom canning or smoking and air delivery.

What to do with your catch

If you live in Seattle or have friends there, the simplest way to enjoy your salmon is to barbecue them. (Or you can rent accommodations with a kitchen; but laws prohibit restaurants from cooking fish brought to them by customers.)

If you lack these options or have fish to spare, you might consider having some or all of your fish canned, smoked, or sent home in ice. Prices for these services vary widely; check under Fish Packers in the Seattle yellow pages, then shop around. Canning may take three days, smoking about a week; or you can frequently exchange your fish for already-canned salmon. Canning may cost around 35 cents for a half pound, smoking 50 cents a pound, smoking and canning 60 cents per 6-ounce can.

The cost of packing a 10-pound fish in ice begins at about $6.50; a packer who both packs and ships the fish home for you may charge around $38 (Seattle to San Francisco). Airborne Freight Corp., Sea-Tac International Airport (433-4451), provides door-to-door pickup and delivery for packaged fish (somebody should be at your home to receive the shipment). The cost to ship a 10-pound fish packed in 5 pounds of ice is about $25. Two-day delivery is guaranteed to most cities. Fish can be insured against spoilage.

Airline cargo offices can also ship packaged fish. Minimum charge, Seattle to San Francisco, ranges from about $13 to $20; door-to-door service costs from $30. There's no charge if you hand-carry small packages of ice-protected fish aboard an airplane, but federal regulations require you to know how many pounds of dry ice you're bringing aboard. Arrive early and be prepared to fill out the required forms. □

"Before I put my Olds wagon in this garage, I put this garage in my Olds wagon."

When I drove my new stom Cruiser home, I picked this specially-designed light-ight garage on the way. hich should give you an idea w Olds builds its full-sized gon. Practical dimensions tside, plenty of room inside the 1009 pounds of materials eded for my new garage.

I can flip the tailgate down loading, or sideways like a or, with the window up or wn. Even the hinges are ncealed for easier loading. rdered the new rear-facing

ird seat because you can pen it with one hand without limbing in; and I ordered the oof rack with adjustable rossbars.

Yet this is more than just a oomy station wagon. It's an Oldsmobile.

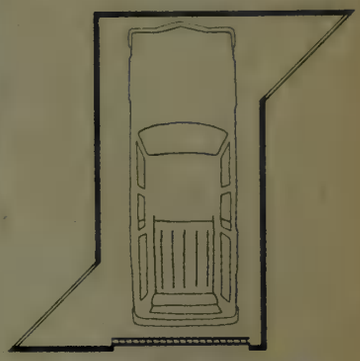
It doesn't ride like a wagon. It's smooth, quiet, and a luxury to drive. Standard equipment includes Turbo Hydra-matic transmission, power brakes and steering, steel-belted radials. And it includes a 350 V-8 that can still give good gas mileage. (EPA estimates: 19 mpg in the highway test; 14 mpg, city. Your mileage depends on how you drive, your car's equipment, and its condition. In California, EPA estimates are lower.)

And this is one wagon that's built for comfort. There's cut-pile carpeting that runs the length of the loading space and up the sides. There are two lockable storage areas, one underneath the load floor and one in the left side. There's a center armrest up front; you can even have velour upholstery, if you like. And the electric rear window is standard.

Oldsmobile took a big load

off my back when they built the Custom Cruiser. It's not just a spacious wagon. It's a car that looks good in any garage.

They really built one for me!



Garage is 10' x 20', with added triangular wings: total, 225 sq. ft. For complete building plans and list of materials, write Department W-1, Oldsmobile Div., Lansing, MI 48921.

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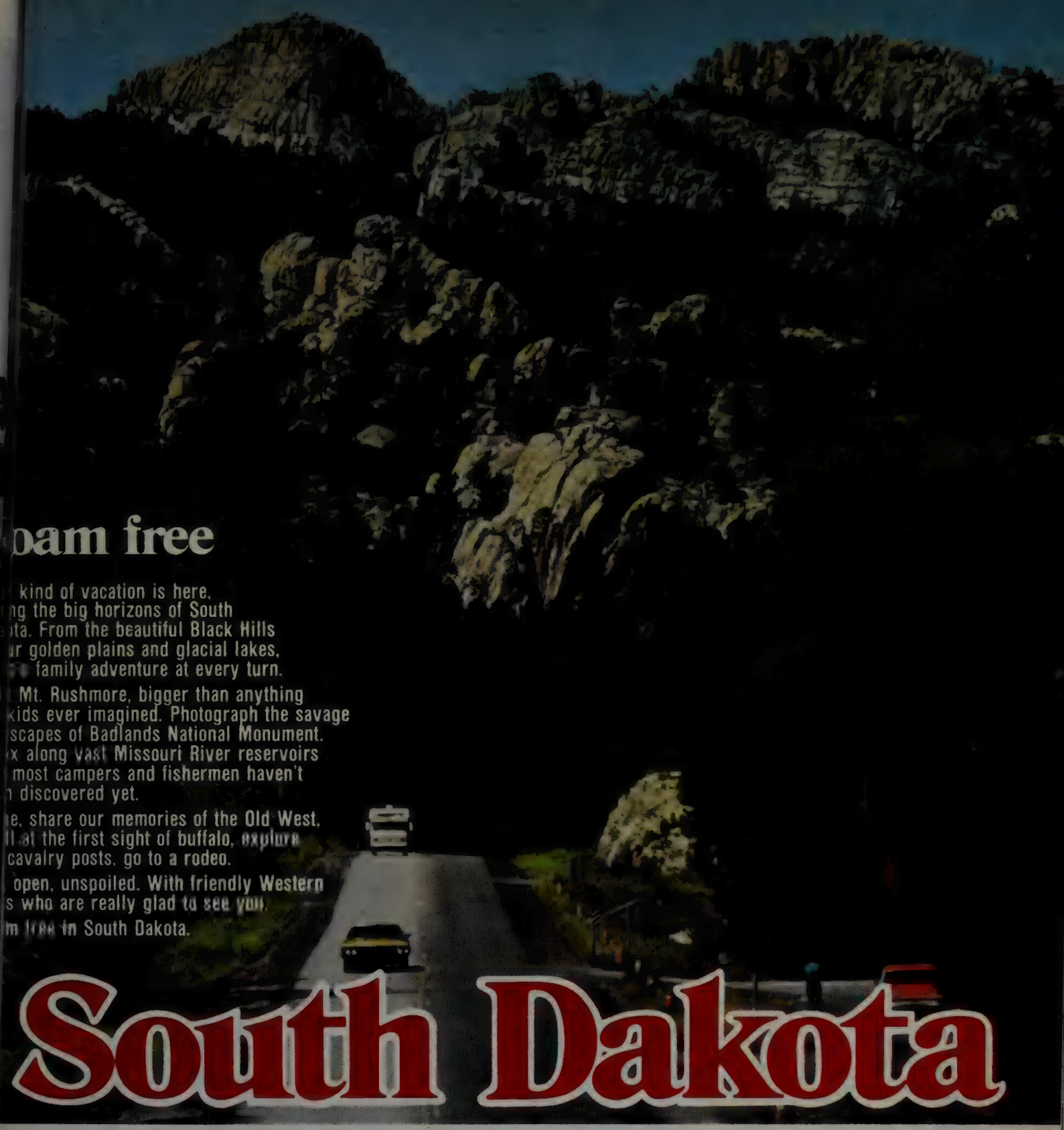
If you are heading south . . . 10 April days of jazz in New Orleans

Crowds line up *between concerts to sample favorite Louisiana fare*

The city that gave us jazz and creole food offers more of its best this month at one of the country's most diverse music festivals.

From April 15 through 24, the eighth annual New Orleans Jazz & Heritage Festival will present more than 200 musical groups—some of the finest performers of all kinds of jazz, as well as gospel, blues, rhythm and blues, Cajun and zydeco (a blues offshoot of Cajun), bluegrass, and country music.

Oak trees and lagoons set the stage for the main festival at the Fair Grounds Race Track, 1751 Gentilly Boulevard, a 15-minute drive from the French Quarter. Fridays through Sundays, concerts



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Grin accompanies *lively tune of Cajun violinist Henry Fontenot*

will run continuously from noon to 6 on five outdoor stages and in two big-top tents. A $3 ticket ($2.50 in advance) admits you to one day's concerts.

Booths sell big helpings of such Louisiana favorites as jambalaya, creole-stuffed crab, red beans and rice with sausage, andouille gumbo for $1 to $3.

Evening concerts (always sellouts) require advance tickets: send check or money order (add 25 cents postage, handling) to Tickets, New Orleans Jazz & Heritage Festival, Box 2530, New Orleans 70176. List choices by preference.

Concerts aboard the Mississippi riverboat S.S. *President* are: April 17 ($8), rag and jazz night with Eubie Blake, Wallace Davenport Allstars with the Zion Harmonizers and Louis Cottrell; April 20 ($8.50), Sonny Rollins, Charles Mingus, Henry Butler group; and April 21 ($8), Allen Toussaint, Irma Thomas, and the king of zydeco, Clifton Chenier.

Other advance-sale performances: April 15 ($8, $10), Municipal Auditorium, Ella Fitzgerald, Tommy Flannigan Trio and Roy Eldridge; April 19 ($8, $10), Royal Sonesta Hotel, Ronnie Kole, Alvin Alcorn Trio, Kid Thomas & the Preservation Hall Jazz Band; April 22, Theater of the Performing Arts, 8 P.M. Natalie Cole ($8, $10), at midnight the Crusaders ($7.50, $8.50). □

You can sit back *and relax at one of seven stages where concerts continue 6 hours a day; $3 is all you pay*

The new $3051* Colt. Isn't a Datsun. Isn't a Toyota. It's a lot of little Dodge.

The new Dodge Colt is such a lot of car, it's got Mr. D. and Mr. T. confused. Because Colt offers you the value you'd expect from this import, plus Dodge Colt sales and service coast to coast.

Looking for a long list of standard features? Well, you get it with any of our '77 Colt models.

Even our lowest priced two-door coupe gives you whitewall tires, two reclining bucket seats, tinted glass in all windows, and carpeting.

Plus adjustable steering column, simulated wood-grained instrument panel, four-speed manual transmission, quiet sound insulation, trip odometer, locking gas cap, and electric rear window defroster.

And we offer you an optional automatic transmission to go with the standard 1.6 liter engine that runs on either leaded or unleaded gas.

So if you're thinking "import," think about Dodge Colt. It's not a Datsun. Not a Toyota. For $3051, it's a lot of little Dodge. See it at your Dodge Colt Dealer's.

*Manufacturer's suggested retail price, with California emission controls, not including destination charge, taxes, title, and options.

Dodge

A PRODUCT OF CHRYSLER CORPORATION

Dodge Colt. It's a lot of little Dodge.

Long curving wake *of a solitary boat laps the sheer red sandstone walls of Reflection Canyon on Lake Powell*

Boaters' wilderness

Immense, lonely man-made Lake Powell . . . in your own or a rented boat for a few miles or hundreds

Stored behind the concrete bulwark of Glen Canyon Dam, clear, blue-green Lake Powell was born in controversy. Even now, almost 14 years after the massive dam was completed on the Colorado River, conservationists still bemoan the drowning of delicately beautiful Glen Canyon, while developers still talk about benefits of water conservation, power, and recreation.

The fact is, Lake Powell is nearly full—an immense fjord in the heart of the Southwest's red-rock canyon country.

The lake's outstanding feature is sheer size: the main channel is more than 180 miles long (see map on pages 106 and 107), and six Lake Shastas would barely fill it. Hundreds of bays, side canyons, coves, and river channels give Lake Powell an incredible shoreline—more than 1,900 miles—roughly 800 miles longer than the entire California coast.

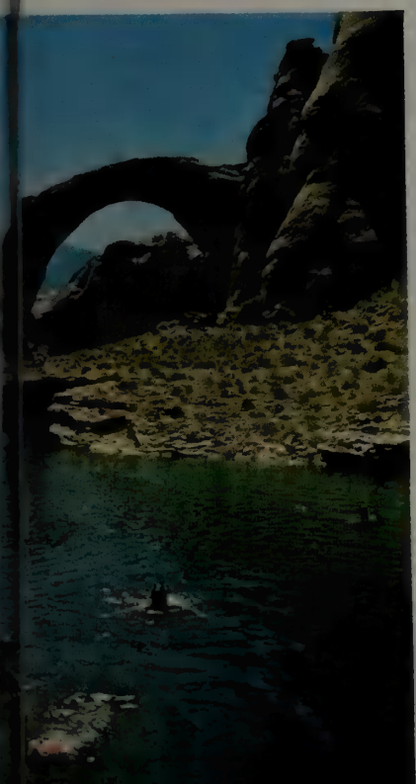
In spite of its size, Lake Powell is basically an intimate experience. Because the lake flooded the ancient canyons of the Colorado River, there are only a few large bays where you get a sense of how big it really is.

At water level red-rock buttes, weathered spires, and striated mesa walls tower above you. In narrow side canyons, still water twists back until vertical sandstone walls get so close you can't turn your boat around, and when you look up the sky is a jagged blue crack.

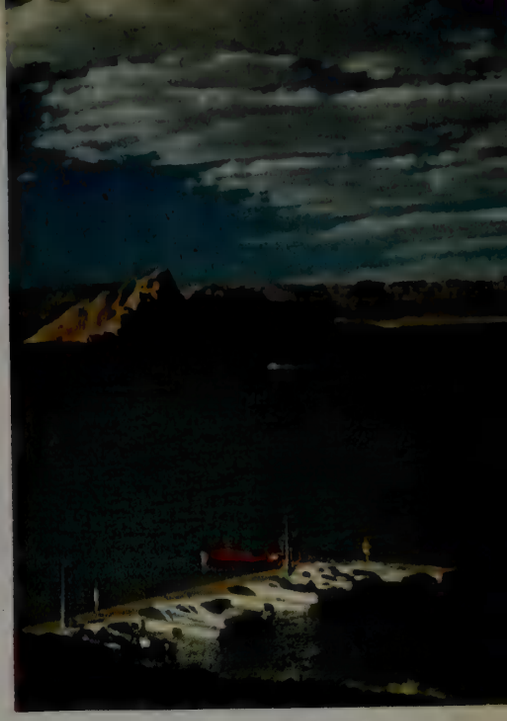
Whether you own a boat or rent one,

GLENN CHRISTIANSEN

Graceful span *of Rainbow Bridge arches 309 feet above Rainbow Canyon where hikers cool off in lake*



Weathered face *of towering cliff rises above boat and campers exploring side-canyon beach*



Afternoon clouds *over Wahweap Marina dock stretch up the lake from Arizona into Utah*

Canoe meets outboard *near canyon head—white band on rock is high-water "bathtub ring"*

Sandstone walls *edging Wahweap Bay are your poolside view from Wahweap Lodge, the only resort-type accommodations on Lake Powell*

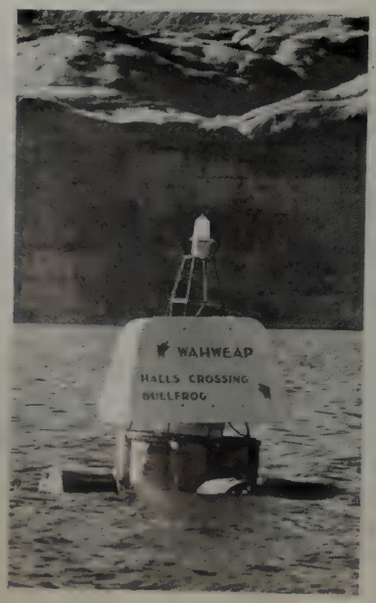
GLENN CHRISTIANSEN

Warm, calm water *is right for skiing. Skis, tow ropes, and flotation belts can all be rented with ski boats*

Just one resort on Lake Powell but plenty of water action

They brought along *this cartop sailboat—rental sailboats aren't available on the lake*

Signed *or numbered buoys mark main lake channels*



asazi ruin *or sheep pen? We found s wall, probably built by a modern pherd, near ancient cliff dwellings*

Early morning *catch for young angler last August was this good-sized largemouth bass*

ese side canyons and bays are what ake Lake Powell a grand family destition. Even on the most crowded weekds it is easy to find your own private e for camping, swimming, fishing, d back-country exploring.

is month both water and weather may ll be on the cool side, but it isn't too rly to start trip planning. By June, ytime temperatures reach into the d-90s and stay there through August, t low humidity and an occasional im make this seem just about right.

etting into Lake Powell country

eart of the Glen Canyon National ecreation Area, Lake Powell runs dionally from northeast to southwest—most halfway between Denver and Los ngeles. Los Angeles is less than 600 iles away (a long day's drive), Denver a little closer.

ou can drive to the water at four manas spaced evenly around the lake. All ave launching ramps, gas docks, and nall stores selling ice, food staples, and shing tackle. Each has an airstrip.

he hub of boating activity on the Arizona end of the lake is Wahweap Mana. It's just 5 miles from Page, which as several large supermarkets, motels n summer, reservations are a must), nd boat repair shops. Largest marina n the lake, Wahweap has the only esort-type accommodations: Wahweap odge with 123 units starting at $22 per ight for two and a restaurant with an utstanding lake view but (last summer) less than spectacular food. There are also 135 trailer sites ($5 per night) with complete hookups.

The National Park Service maintains an improved 180-unit campground ($2 per night) and visitor center at Wahweap. Here you can get maps and information on boating and fishing regulations.

Halls Crossing and Bullfrog marinas are just across Bullfrog Bay from each other, about 90 miles up-lake from the dam. Bullfrog has 16 trailer sites ($5) with complete hookups. Both have trailer housekeeping units renting for about $22 per night, double occupancy. The park service has 90 improved campsites ($2) at Bullfrog, 50 improved ($2) and 50 unimproved at Halls Crossing, ranger stations at both.

Hite Marina is about 140 miles up-lake from the dam. The least developed of the marinas, it has no overnight accommodations or improved campsites, not even a telephone. A ranger station operates here summer only. However, for self-sufficient campers there are complete marina and boat rental facilities.

A fifth marina, accessible only by boat, is about 50 miles up-lake near Rainbow Bridge National Monument. There is a gas dock, small store, and ranger station. Farther up Bridge Canyon is a dock at the trailhead to Rainbow Bridge, a 5-minute walk up the canyon.

Exploring the lake

In 1869, John Wesley Powell and his band of adventurers were the first to explore the canyons of the Colorado River by boat; the quotations on our map (pages 106 and 107) are his journal notes on the section of the river now under water. Because of the lake, modern explorers can't follow Major Powell's exact route, but perhaps you can experience his appreciation of the canyons as you sample the lake on your own.

If you don't own a boat you can rent a variety of craft ranging from a 14-foot rowboat to a deluxe 50-foot houseboat. The chart on page 107 gives some of the rentals available at each marina; write to them for a complete list. Reserve now or soon—some weeks are already almost completely booked.

Houseboats like the one on our cover are fully equipped. Bring your own food, bedding and linen, fishing tackle, and camping gear for shore use (lantern, shovel). Consider an extra ice chest and a tarp with rope in case you need more shade. Don't forget a hat, sunglasses, suntan lotion, insect repellent.

Many boaters pack camping gear into their ski or fishing boats and tent on the shore. You're allowed to camp anywhere along the lake except within a mile of developed areas. Steep canyon walls of the main river channel offer few good boat moorages, but side canyons offer ample campsites. Don't camp directly under cliffs or talus slopes. Lake water is safe for cooking but should be boiled or treated before drinking. You

Lake Powell—full pool in a dry year?

As the drought in the West becomes critical, many reservoirs are being drawn way down. In northern California especially, many are dangerously low; a few are almost dry.

Southern California will be looking to the Colorado River for more water this summer. How will this affect Lake Powell?

A Bureau of Reclamation spokesman in Page told *Sunset* reporters that Lake Powell will be virtually unaffected by California's water shortage. He stated that extra water going to Southern California will come from the country's largest reservoir farther down the Colorado River—Lake Mead—which is holding at close to normal water levels.

Lake Powell is getting about 66 percent of its normal water inflow this year, but the overall effect on recreation will be minimal. The Bureau of Reclamation estimates that peak water elevation this July will be about 3,662 feet, only 10 feet below peak elevation last July.

This should give Lake Powell visitors about 130,000 water surface acres to use. Only one other reservoir in the country has more water—and that's Lake Mead.

The lake is 180 miles long and it has more than 1,900 miles of shore

must pack out all garbage and place latrine and washing areas well away from water's edge.

Know your boat's range before setting out. Marina gas docks are about 50 miles apart.

For fishermen, cooler water in spring and fall are the best times for largemouth bass, walleye, striped bass, and rainbow trout, although fishing can be good in summer if you fish deep (up to 100 feet) for trout and go for bass morning and evening. During summer you may catch catfish on bait in shallow bays or at heads of canyons. Crappie fishing is good in spring and early summer, bluegill anytime. Marinas sell licenses with the necessary Lake Powell stamp.

Some of the region's most rewarding experiences are short walks up side canyons: natural bridges and arches carved by the elements, ancient ruins and rock art of the Anasazi. Cliff dwellings and petroglyphs are more common up-lake from Rainbow Bridge; you can clamber up the rocks to explore the ruins, but it is illegal to remove any artifacts.

For nonboaters near Page

There are several ways confirmed landlubbers can sample the reservoir's backcountry without getting their feet wet.

One of the most popular programs is Canyon Tours' half-day, 100-mile excursion from Wahweap Marina to Rainbow Bridge and back. There are daily departures at 7:30 A.M. and 1 P.M.; cost is $29.50 for adults, $21.75 for children under 12.

They also offer other tours of Lake Powell and the immediate area lasting from one to five days. Write to Wahweap Marina for a brochure.

Lake Powell Air Service (Box 1385, Page 86040) offers "flightseeing" tours of the lake ranging from a ½-hour hop to Rainbow Bridge (you can't really see it from the air) to a 2½-hour trip the length of the lake. New fares weren't set at our deadline.

Glen Canyon Dam Visitor Center, on U.S. Highway 89 at the dam, is open daily from 8:30 to 5; summer hours, 7 A.M. to 7:30 P.M. A half-hour self-guided tour takes you 528 feet from the crest of the dam into its heart to see the massive generators and floodgates.

For more information

Best source of local information on accommodations and services is the Page Chamber of Commerce (Box 727, Page, Arizona 86040). You'll find it in the Powell Museum (itself worth a visit) at the corner of Navajo Drive and Seven Avenue. Now it's open 9 to 5 Monday through Saturday (May 16 to September 15, daily 9 to 9).

The National Park Service (Glen Canyon N.R.A., Box 1507, Page 86040) can send you camping and boating details.

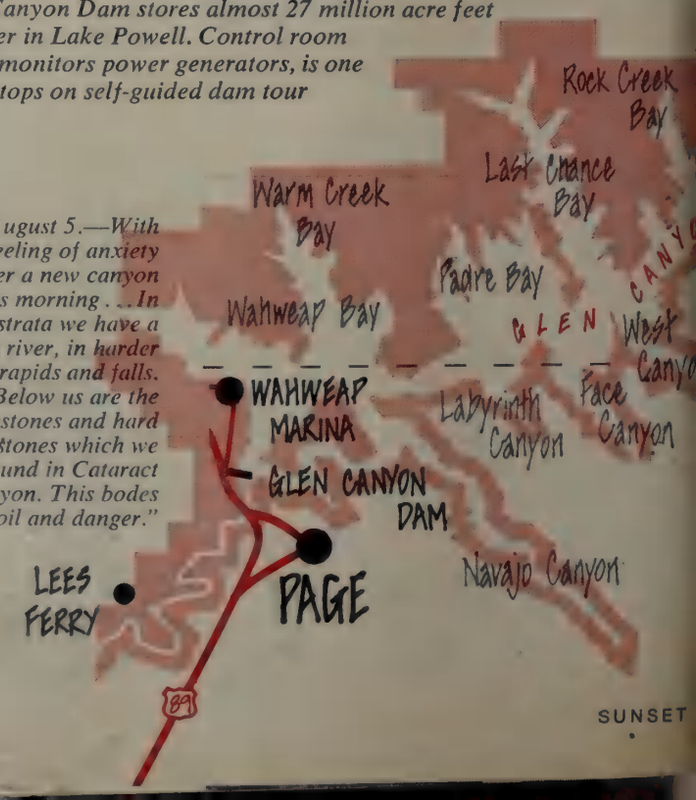
Two useful guides, which are available in local stores and at marinas, are Stan Jones' *Lake Powell Country Map*, $ and *Dowlers Lake Powell Boating Guide*, $3.95.

Before you go, check your library or bookstore for these books to get a feeling of what Glen Canyon was like before the lake: *The Exploration of the Colorado River and its Canyons*, by J. W. Powell; *Beyond the Hundredth Meridian*, by Wallace Stegner, a complete look at river's history; *Time and the River Flowing*, by Francois Leydet, featuring exquisite color photographs of Glen Canyon by Eliot Porter.

GLENN CHRISTIANSEN

Towering *583 feet over the original river channel, Glen Canyon Dam stores almost 27 million acre feet of water in Lake Powell. Control room above monitors power generators, is one of 17 stops on self-guided dam tour*

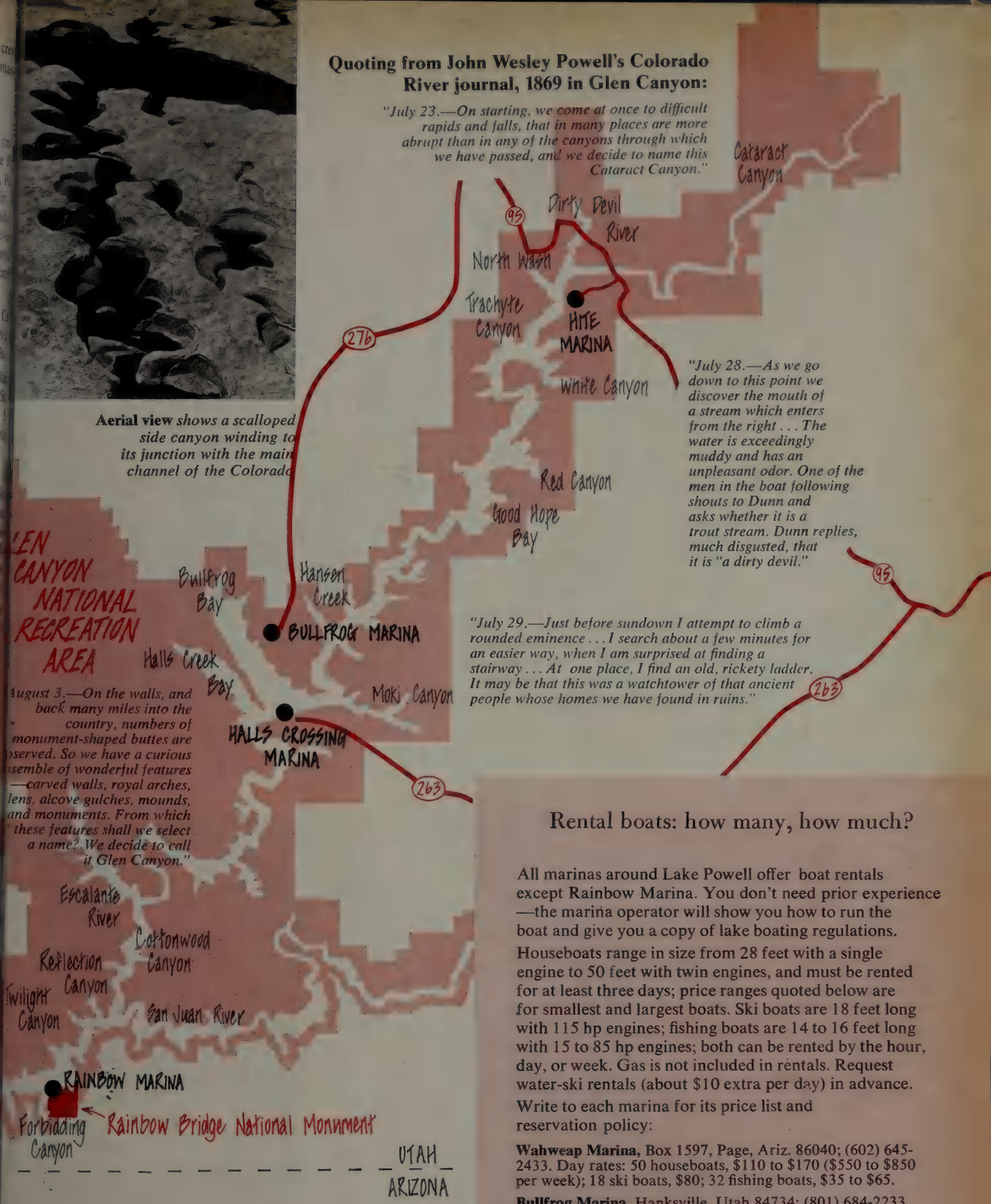
"August 5.—With some feeling of anxiety we enter a new canyon this morning . . . In softer strata we have a quiet river, in harder we find rapids and falls. Below us are the limestones and hard sandstones which we found in Cataract Canyon. This bodes toil and danger."



Aerial view *shows a scalloped side canyon winding to its junction with the main channel of the Colorado*

Quoting from John Wesley Powell's Colorado River journal, 1869 in Glen Canyon:

"July 23.—On starting, we come at once to difficult rapids and falls, that in many places are more abrupt than in any of the canyons through which we have passed, and we decide to name this Cataract Canyon."



"July 28.—As we go down to this point we discover the mouth of a stream which enters from the right . . . The water is exceedingly muddy and has an unpleasant odor. One of the men in the boat following shouts to Dunn and asks whether it is a trout stream. Dunn replies, much disgusted, that it is "a dirty devil."

"July 29.—Just before sundown I attempt to climb a rounded eminence . . . I search about a few minutes for an easier way, when I am surprised at finding a stairway . . . At one place, I find an old, rickety ladder. It may be that this was a watchtower of that ancient people whose homes we have found in ruins."

"August 3.—On the walls, and back many miles into the country, numbers of monument-shaped buttes are observed. So we have a curious assemble of wonderful features —carved walls, royal arches, glens, alcove gulches, mounds, and monuments. From which of these features shall we select a name? We decide to call it Glen Canyon."

"August 3.—In the year 1776, Father Escalante, a Spanish priest, made an expedition from Santa Fé to the northwest . . . (His return) led him across the Colorado at a point known as El Vado de los Padres . . . Our boats are lying at the point where the ford crosses. A well-beaten Indian trail is seen here yet . . . For several years the Navajos have raided on the Mormons that dwell in the valleys to the west, and they doubtless cross frequently at this ford with their stolen cattle."

Rental boats: how many, how much?

All marinas around Lake Powell offer boat rentals except Rainbow Marina. You don't need prior experience —the marina operator will show you how to run the boat and give you a copy of lake boating regulations.

Houseboats range in size from 28 feet with a single engine to 50 feet with twin engines, and must be rented for at least three days; price ranges quoted below are for smallest and largest boats. Ski boats are 18 feet long with 115 hp engines; fishing boats are 14 to 16 feet long with 15 to 85 hp engines; both can be rented by the hour, day, or week. Gas is not included in rentals. Request water-ski rentals (about $10 extra per day) in advance.

Write to each marina for its price list and reservation policy:

Wahweap Marina, Box 1597, Page, Ariz. 86040; (602) 645-2433. Day rates: 50 houseboats, $110 to $170 ($550 to $850 per week); 18 ski boats, $80; 32 fishing boats, $35 to $65.

Bullfrog Marina, Hanksville, Utah 84734; (801) 684-2233. Day rates: 58 houseboats, $110 to $170 ($550 to $850 per week); 12 ski boats, $80; 25 fishing boats, $25 to $65.

Halls Crossing Marina, Blanding, Utah 84511; (801) 684-2261. Day rates: 26 houseboats, $100 to $170 ($525 to $850 per week); 8 ski boats, $50 to $80; 15 fishing boats, $9 (no motor) to $60.

Hite Marina, 3800 N. Central Ave., Suite 1501, Phoenix 85012; (602) 264-8274. Day rates: 24 houseboats (36 or 43 feet long), $130 or $145 ($650 or $725 per week); 10 ski boats, $80; 15 fishing boats, $25 to $65.

BILL ROSS

Planted in May, *popcorn is dry and golden—and ready for picking—about 110 days later, in late August. Lower-growing (about 4 feet) stalks in foreground are strawberry popcorn; taller ones (about 6 feet) are 'South American Mushroom Hybrid,' a yellow popcorn. Seed was sown 6 inches apart in rows spaced 2 feet apart*

Pull back *the papery husks, or pull them off completely, right after picking. Then spread corn out in your garage and let ears dry for a month*

Kernels *should push right off with no effort when corn is dry enough. If they resist, let the corn dry longer*

Clean corn *by blowing away hulls and miscellany with hair dryer. Flying hulls make a snowstorm, so do this job outside*

Popcorn

Better tasting than any you ever munched at the movies . . . as easy to grow as regular corn

To grow your own popcorn—better tasting than any you can get at the Bijou—order seed now, since popcorn usually isn't available at seed racks.

Order this month and you can plant in May, like the Dale Kirstine family of San Juan Capistrano, California, who grew the patch shown here.

Most mail-order seed companies offer both kinds of popcorn: strawberry and yellow. One, however, sells strawberry popcorn and three varieties of yellow; it's W. Atlee Burpee Co., 6350 Rutland Ave., Riverside, Calif. 92502 (write for a free catalog).

The Kirstines planted 20 19-foot rows of yellow popcorn and harvested enough kernels to fill 25 1-liter canning jars; 12 14-foot rows of strawberry popcorn yielded only three jars of kernels.

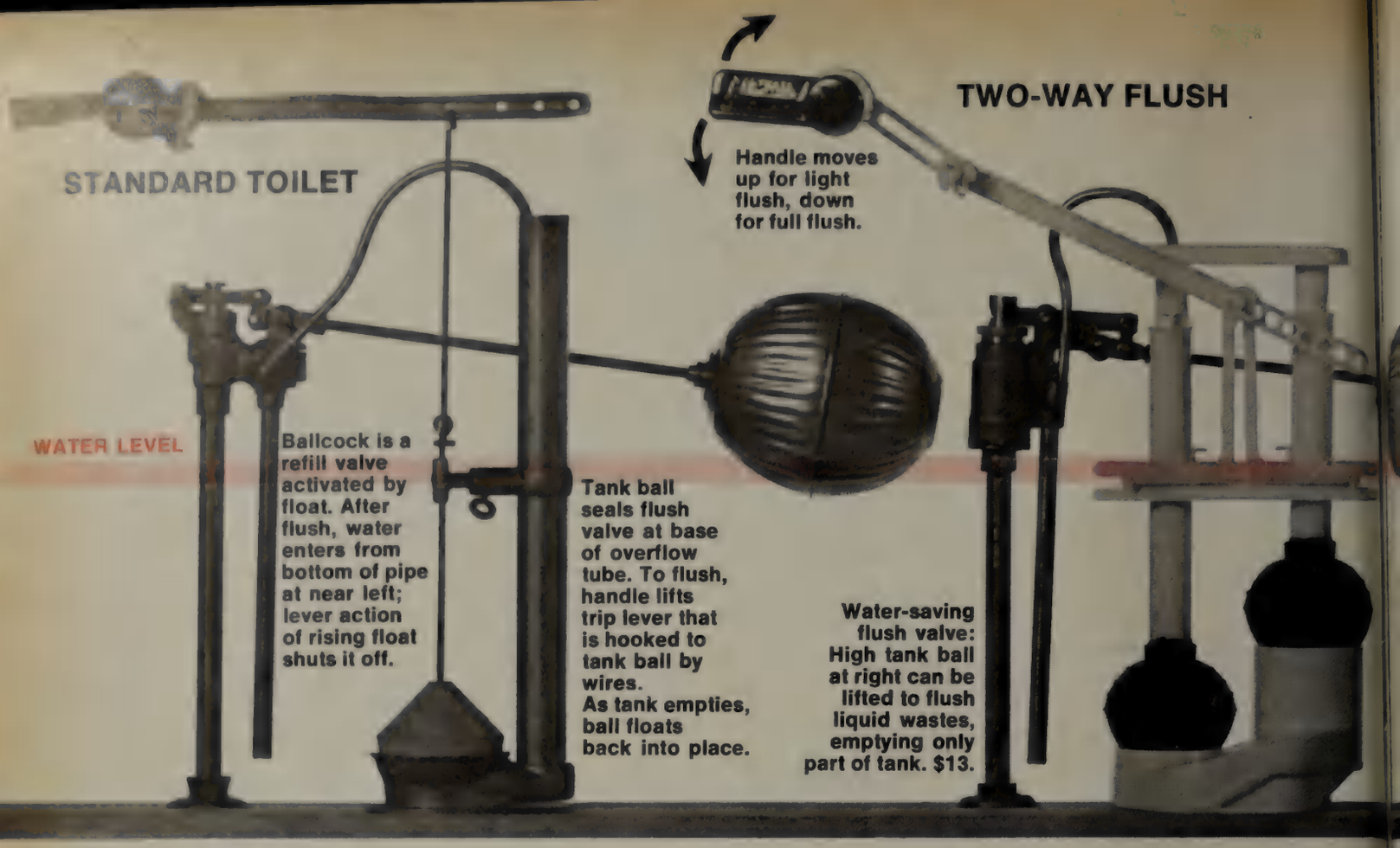
You plant and care for popcorn as you would any other corn, though the Kirstines found they could space plants closer together than the seed packet suggests. (It's best not to plant popcorn near sweet corn because they can cross.)

If your water district is imposing severe restrictions, growing popcorn will be risky this year. If soil is moist when you plant and the summer mild, you might make a crop with one or two irrigations. Where summers are hot, corn will require regular irrigation over a long season.

Once ears mature, stop watering and let stalks dry; these photographs show you what do do next. □

Two kinds *of popcorn: Burgundy-colored strawberry popcorn produces less and pops into smaller puffs than yellow varieties*

It's ready to pop *and any deep pot will do. If corn pops poorly on first try, it isn't dry enough; later on the problem may be that it's too dry*



Four versions of a toilet tank. *We show the standard mechanism at left, then alternatives that help prevent leaks or that flush with less water. (But a conventional toilet still needs most of its 5 to 7-gallon tank capacity for an effective, bowl-cleansing flush; you can save most with a new "shallow-trap" toilet whose bowl requires about 3½ gallons.) Any variation of the tank-refilling ballcock should be the anti-siphon type, to keep tank water from bleeding back into your fresh-water supply lines*

Thousands fewer gallons

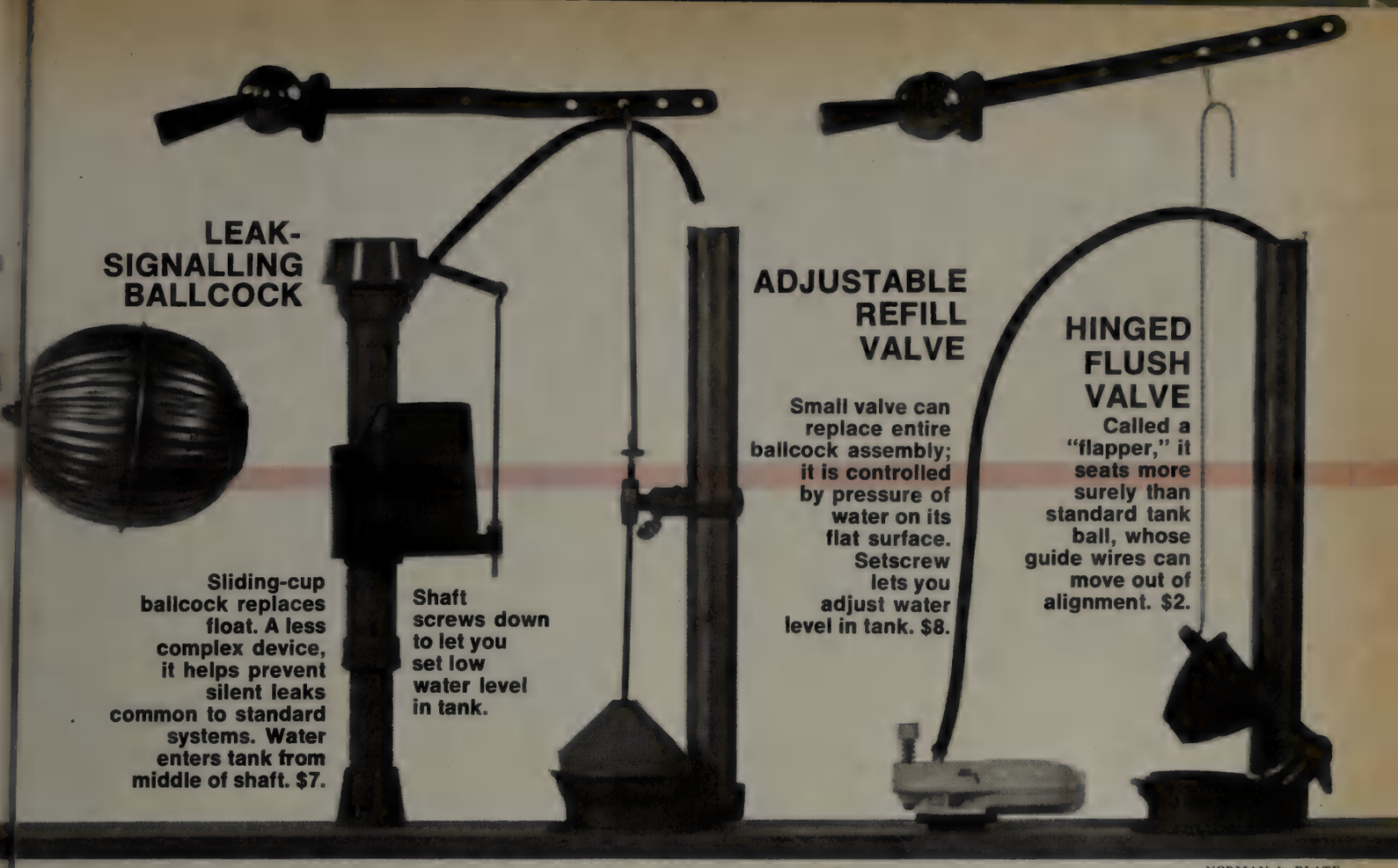
Here are mechanisms and hardware that reduce flush, reduce faucet and shower flow, stop leaks, provide shutoff

Flow reducer *for faucet or shower head. You use less water, get same cleansing force. Cost: from 50 cents*

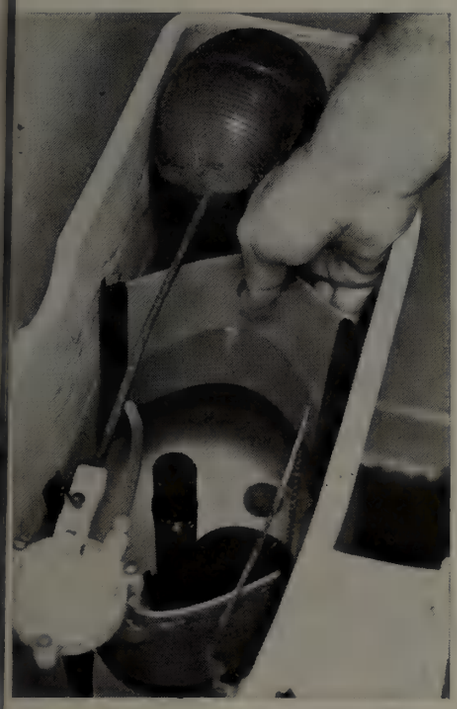
The most effective way, ultimately, to save precious water is with good habits: Keep your plumbing in good repair, and don't let a drop out of the tap unless it's absolutely needed.

But several pieces of hardware can help make your water-wary living more comfortable and effective, particularly if you have a large family. Here we show a variety of modestly priced devices whose effect adds up. Together they can save a typical family several thousand gallons each year and can help reduce the costly energy needed to pump and heat household water.

Since toilets use fully half of all indoor water, the devices pictured across the top of the page are especially helpful. But for really substantial savings, investigate the new "shallow-trap" toilets. They're similar to standard toilets but are designed to work with about half the flushing water—and may pay for themselves surprisingly fast. □



NORMAN A. PLATE



Plastic dams *fit around flush valve; during flush, they hold back water in lower corners of tank. Cost: $5. (Don't use a brick in your tank; it can crumble and cause valve leaks)*

Repair kit *has most standard parts; you don't waste time shopping when a leak occurs*

Timer *shuts off hose in case you forget, preventing runoff. About $12*

Instant shutoff *on shower head. After getting wet, you can flick it off to soap down without wasting water, then restore the flow immediately without having to adjust hot and cold controls. About $6*

Insulation *covered with tape slows heat loss from hot-water lines*

"We left room *behind the deck for a tiny 5 by 10-foot vegetable garden. It produces enough for both of us, flowers too." Pat and Becky O'Brien, Santa Ana*

"Our small beach lot *was all weeds a year ago; now it's annuals, perennials, vegetables." David and Jeanie Schlesinger, Long Beach*

"I wanted a tropical setting *around the swimming pool without feeling too crowded." Daylily, Iceland poppy lend seasonal color to Dimitri Moursellas's tropical Manhattan Beach garden*

Garden Contest winners for 1976...a sampler

Many winners combine vegetables with flowers. Many ingeniously make small spaces perform

Sunset's garden contest always turns up trends in Western gardening as well as many good ideas. Last year's contest was no exception. On these pages are 6 of the 17 top winners. All these are from California; others, including some from other states, will appear later.

One trend really stood out: To save space, more and more gardeners have combined vegetables and flowers like some colorful salad. And the vegetables are up front, part of the landscape.

Two such gardens are pictured here. Pat and Becky O'Brien of Santa Ana (top left) built a deck small enough to leave room for a 5 by 10-foot garden of flowers and vegetables. Containers on the deck hold additional flowers and vegetables, and some herbs.

BILL ROSS

GLENN CHRISTIANSEN

"The deck flows *around the Canary Island palm because it's hard to garden underneath, and it looks good." Merle Christensen, Los Altos*

STEVE W. MARLEY

"I carved *my own planters out of feather rock with stonecutter's chisels." Mrs. Thomas F. Cox, Kensington*

"All our projects *use secondhand building materials. The gate hangs from old rolling barn hardware." Thomas Watson, Ventura*

David and Jeanie Schlesinger of Long Beach had only 11 to 22 feet of gardenable space (lower left). They used silvery leafed artichokes in a raised hexagonal planter as the center of the garden. Cucumbers scramble up the fence, surrounded by Shasta daisies; rhubarb grows out of dichondra ground cover.

Another trend has turned sour since 1976. Seven gardens used bodies of water—streams, waterfalls, pools—as their center. Most of these gardens will probably have to wait for better and wetter times before we can report on them.

Just above you see how a gardener worked with garden water he already had. Dimitri Moursellas of Manhattan Beach saw an article in the July 1974 *Sunset* on how one family turned a swimming pool into a tropical lagoon through lavish use of plants. He tried the same thing with natural stones for the pool's coping, a deck over one end, and a variety of tropicals and subtropicals.

Many of the entries won because they were simple, original ideas. Merle Christensen of Los Altos built a deck under a Canary Island palm (above). Big palms are difficult to garden under, but new pots of fuchsias put color right in the middle of the tall bare trunk. Mrs. Thomas Cox of Kensington learned how to carve feather rock with a stonecutter's chisel to produce natural-looking planters; you can see one at top right. Thomas Watson of Ventura used antique sliding barn-door hardware for a clever solution to a side-yard gate problem. □

How to enter the 1977 Garden Contest

For an entry form and set of rules, send your name and address to: 1977 Garden Contest, *Sunset Magazine*, Menlo Park, Calif. 94025. If you return the form and the required five snapshots right away, we'll have a better chance of visiting your garden. Deadline for all entries is September 1.

We welcome all good gardens, but particularly seek designs and techniques that stress water conservation—lawn replacement, recycled water, drip irrigation, and reduced watering in general.

The two famous old breads of old Bath

Sally Lunn and Bath buns. Serve either one warm for breakfast, brunch, or tea

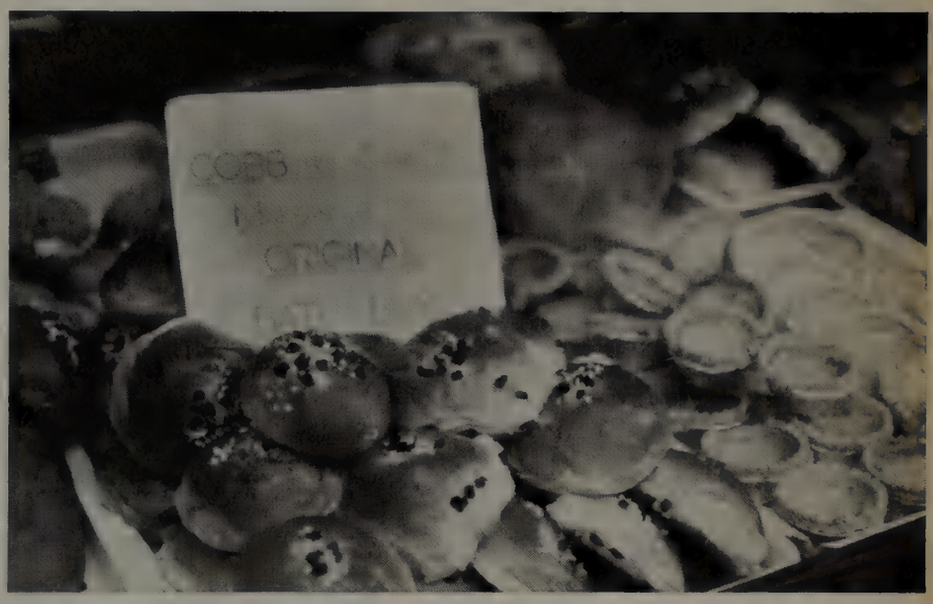
"Oldest house *in Bath 1482," reads the sign. "Sally Lunn lived here 1680." It still serves tea and Sally Lunn*

The celebrated 18th-century health-spa town of Bath is also famous for originating two of England's teatime delicacies—a bread-cake called Sally Lunn, and Bath buns.

Sally Lunn is said to have been a pastry cook and baker who made and served a light, eggy yeast cake at her refreshment house in the town around 1680. Her specialty, a cross between a cake and a batter bread, soon came to be known by her name.

Then, when the overindulgent society of the late 1700s discovered the curative virtues of the mineral water in Bath, the town became the focal point of fashion. It was thought to produce the best of everything, including the sweet buns that became popular to serve with tea. Made from a yeast dough, these large buns are full of currants or candied fruit and sprinkled with crushed sugar.

But you needn't wait until teatime to enjoy these breads. Serve them with breakfast or brunch for a treat. Both are best warm—either right from the oven or reheated. To reheat, wrap the Sally Lunn in foil (place Bath buns, uncovered) on a baking sheet. Heat in a 350° oven until warm, about 15 minutes.



Bakeries in Bath *sell the city's famous sugar-topped currant buns. Serve them warm and plain or with butter and jam*

Old English Sally Lunn

In a large bowl, dissolve 1 package active dry yeast in ½ cup warm water (about 110°). In a pan heat 1 cup milk, ½ cup (¼ lb.) butter or margarine (cut into small pieces), ⅓ cup sugar, and 1 teaspoon salt just until warm (butter need not melt completely). Add to dissolved yeast; stir in 3 eggs and 3 cups unsifted all-purpose flour; beat smooth.

With a spoon or heavy-duty mixer, beat in enough additional flour (2½ to 3 cups) to make dough stiff but too sticky to knead. Cover; let rise in a warm place until doubled, about 1½ hours. Stir down dough and turn into a well-buttered 10-inch tube pan with removable bottom. Push and punch dough to evenly cover pan bottom. Cover and let rise until level with pan top, about 1 hour. Bake in a 375° oven for about 35 minutes or until well browned.

When done, run a long spatula around pan sides; lift out tube and bread. Loosen bottom of bread with spatula; invert and twist tube gently to remove. Stand upright on a wire rack. Cut in thin wedges; serve warm, reheated, or toasted. Makes 1 large loaf.

Bath Buns

In a large bowl, dissolve 2 packages active dry yeast in ½ cup warm water (about 110°). Heat 1 cup milk, ⅔ cup butter or margarine (cut into small pieces), ½ cup sugar, and 1 teaspoon salt in a pan just until warm (butter need not melt completely). Add to dissolved yeast; also stir in 2 eggs and 2 cups unsifted all-purpose flour. Gradually beat in another 3 cups flour; then stir in 1 cup currants or chopped candied fruit.

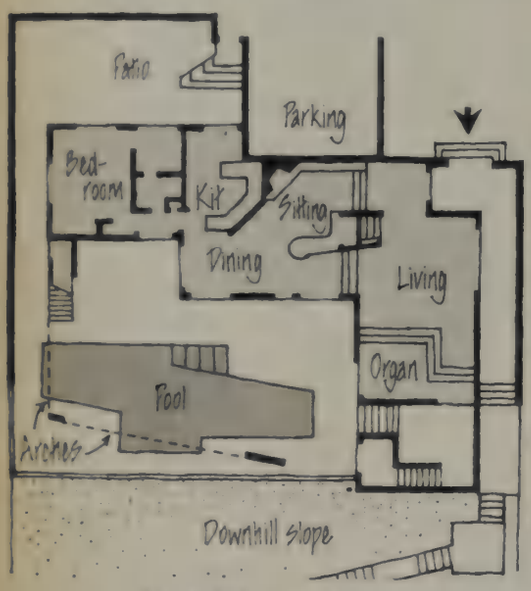
With a wooden spoon or heavy-duty mixer, beat in enough additional flour (about 1¼ cups) to form a soft dough. Turn out on a floured board and knead gently until smooth, about 5 minutes. Turn over in a greased bowl, cover, and let rise in a warm place until doubled, about 1½ hours.

Punch down dough and divide into 24 equal pieces. Shape each into a smooth ball and place 2 inches apart on greased baking sheets. Cover and let rise in a warm place until puffy, about 25 minutes. Meanwhile, coarsely crush about ½ cup sugar cubes.

Brush buns with a mixture of 1 egg yolk and 1 tablespoon milk; then sprinkle tops with crushed sugar. Bake in a 375° oven for about 15 minutes or until nicely browned. Transfer to wire racks. Serve warm or reheated. Makes 2 dozen. □

That isn't Sally Lunn *with a slice of Bath bun. It's just a slice of Sally Lunn*
GLENN CHRISTIANSEN

Greeting guests *at streetside. Exposed chimney flues and sloping roofs without overhangs minimize bulk of house on tight lot*



Simplified plan *shows how parking, house, pool, and downhill slope fit on lot*

DON NORMARK

House opens like a lantern *to terrace and view, with few windows on other sides. Note easy transition from the indoors. Stairs at left lead up to a bedroom, bath*

Theatrical...chaotic...the most interesting house we saw

(Juror's comment, A.I.A.-*Sunset* Western Home Awards)

This not large, three-level Santa Monica house "opens like a lantern" to terrace, pool, view, fits together "like a jigsaw," and indeed is theater

Surrounded *by garden walls and view-framing square arch (at left), pool narrows at each end to create the illusion of greater length*

Stairs from pool *go up to second floor of bedroom wing. Pool-spanning arch continues house walls*

As personal as a thumb print, the Leland S. Burns house in Santa Monica has stimulating ideas for anyone thinking of building. It also proves that the most exciting houses are not necessarily the biggest.

House, pool, patio, garden, and parking areas fit like pieces in a jigsaw puzzle onto a 75-foot-wide lot in a long-established neighborhood of single-story homes. Six-foot-high stucco walls on three lot lines mark the perimeter of the living space. (On the fourth side, the property falls away steeply toward a southwest view.) The house rises at one point to a three-story height, but its required 6-foot setback from the property lines and its sloping roofs without eaves keep it from overshadowing neighbors.

In the comparatively tight house and lot plan, rooms merge with each other and with the outdoors to give a sense of spaciousness. Paving reinforces this: 12-inch-square pale brown tiles move through the entire ground floor, both inside and out, from the front entrance to the far side of the pool. Flowering bougainvillea, wisteria, and honeysuckle rampage over the stucco walls, showing what an attentive gardener can accomplish with very little ground space.

Color plays a major role, both in integrating the stucco house into its neighborhood and in making the interior lively. On the street side, the exterior is an austere pale gray, but elsewhere and on the outer walls around the terrace, color blooms. Color specialist Tina Beebe mixed 56 shades: a range of terra cottas from pale to deep for the exterior walls, with blues, yellows, pinks, oranges, and browns for the interiors to create a vibrant effect reminiscent of Mexico.

The house fulfills its owners request for two unusual facilities—a music room large enough for a pipe organ, and a

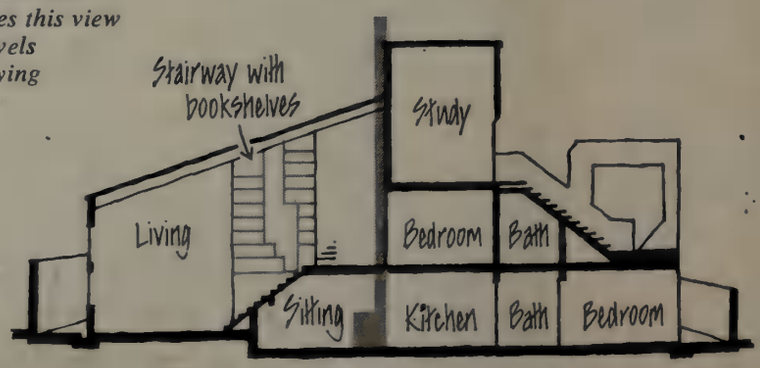
Pictured from above and below, *trellis supporting a tumble of bougainvillea spans the space between garden wall on lot line and square-arch extension of house walls; it provides a secluded walk and shady garden*

Bookshelves *lining stairway to bedroom and study have lighted display niches for showing off a collection of Mexican folk art. Pillows stacked on stair landing (near top in photograph at right) invite browsing*

pool for serious swimmers. Architects Charles W. Moore and Richard Chylinski obliged, with style and subtlety.

Though the house presents a private face to the street, its openness becomes apparent as soon as you enter. The entrance hall and music room are three steps above the rest of the house. The soaring 20-foot-high raftered ceiling in the 17 by 27-foot music room sets the scale. A proper setting for a contemporary organ, the room doubles as a living room and performance theater where friends gather to make music or sit and listen. Two sliding barn doors—one nearly 20 feet tall—can close the room from the rest of the house to improve acoustics.

Slicing *through the middle of the house from side to side produces this view of the three levels with their varying ceiling heights*



To fit a good-sized swimming pool into this property took ingenuity. Its bays and jogs provide spaces for lazing in the water, and its 42-foot diagonal length is enough for serious stroking. The pool's outline is a triumph of optical illusion; the fact that its long sides are not parallel creates a false perspective and a greater feeling of length and width.

The surround of 12-inch tile overlaps the water about 1½ inches. The simple edge and the earth-brown lining of the pool give it a classic landscape quality. The stucco arch on its far side controls the view, framing the handsomest houses across the canyon. The arch, a continuation of house walls, also links house, terrace, and garden into a single private world.

Beyond the music room, the living and dining spaces move around and under the partly enclosed stairway that leads to the second-floor bedroom, bath, and dressing room, and to the study in the tower at the top of the house. Books line the stairway walls—which are painted a surprising rich marine blue and chocolate brown. Lighted niches along the way display small folk-art pieces. At a bend in the stairs, piles of cushions suggest a quiet nook for reading.

The staircase leaves its mark on nearly every room in the house, as all the photographs on these pages show. For example, the nook under the stairs in the living room, with its deep, soft, built-in lounge across from the fireplace, is a perfect spot for one or two people to relax. However, during a party, it will comfortably seat five or six.

To see how this house is really put to work during a party, turn the page.

DON NORMARK

Generous skylight *roofs two-story-high section of living room. Tile hearth continues along wall as bench*

Deep lounge *built in under stairs in living room is a grand place to curl up and listen to records, but it can also provide seating for half dozen guests. It's only steps from pool*

Heart of the house is the three-level core flanked by lofty living room. Stair-library goes up to bedroom, study

What happens when it's time for a party?

There's music from the big organ and from trumpets on the balcony. And the house easily accommodates an everybody-eats-anywhere tray-buffet

Compact kitchen *includes open storage. Angled work counter adjacent to dining area can be hidden by folding doors*

The informal flow of space through this house invites relaxed entertaining. For the casual party for 24 shown here, numerous locations hold segments of a menu—made up mostly of foods you buy ready to serve. The positioning of the foods encourages movement from one area to another. Although your floor plan will differ, this meal plan adapts easily to any location.

Trays of appetizers and one with the dessert course should be placed where the party is intended to begin and end. In the Burnses' house, appetizers and white wine are beside the pool and at several spots in the seating area beneath the stairwell. A buffet in the small dining area holds a ready-when-you-are main course, handily set up from the two-step-away kitchen.

The simple serve-yourself dessert waits on a tray in the music-living room, where a concert from the pipe organ frequently highlights the evening. Multi-levels through the house and steps of the organ stage offer incidental seating for a large number of guests.

Tray-buffet party for 24

All the foods can be prepared ahead, and many are eaten out of hand. A plate and fork suffice for the cold entrée. Once in place, the meal requires no further attention; remove appetizer trays when this part of the menu is finished.

Appetizer trays. On several large trays, individually arrange:

—slices of peeled and seeded papaya wrapped with ham (2 papayas and ¼ pound thinly sliced cooked ham total)

—small whole carrots with tops (wash well and peel 12 to 24 carrots)

—jicama and cucumber slices with chile-seasoned salt (peel 1 small jicama; peel, if desired, 1 or 2 cucumbers; have purchased chile-seasoned salt in a dish for dipping)

—fennel spears and red or green bell peppers with assorted cheeses (separate 3 or 4 heads fennel into stalks; leave 6 to 12 small peppers whole to cut when eaten, but remove seeds and stems; allow 1 pound cheese total—such as Gorgonzola, chèvre, or Brie. Spread cheese on fennel stalks or cut pieces of pepper).

Entrée buffet. Present avocado halves to fill with cold cooked lobster, chicken, or shrimp and top with herb dressing (recipe follows). Accompany with *baguettes* or French bread and butter.

Allow at least ½ avocado per person. Halve avocados and discard pits an hour or so before serving; brush surfaces with lemon juice to prevent darkening.

Allow a total of 6 to 8 pounds (or 12 to 16 cups) bite-size pieces of cold cooked chicken, tiny cooked shrimp, or sliced cooked lobster (or crab). Group each on a large tray; spiny lobster shell and watercress can be used as garnish.

Avocado halves, *herb dressing, lobster, shrimp, and chicken make up a cold salad entrée you assemble whenever you're ready*

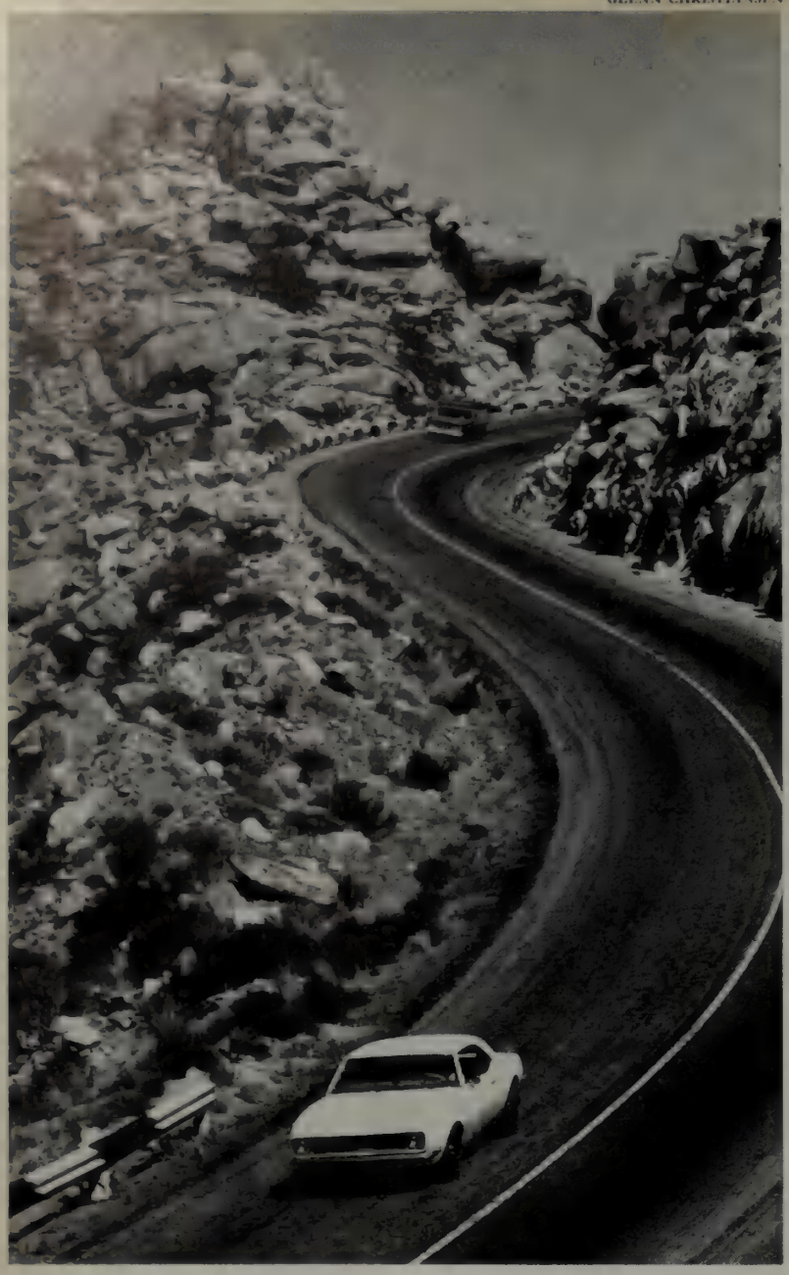
Herb dressing: Blend 4 cups sour cream with 2 cups mayonnaise, 2 cups minced watercress, 1 cup minced green onion or chives, 1 cup minced parsley, ¼ cup lemon juice, 3 tablespoons Dijon mustard, 1 tablespoon dry basil, 2 teaspoons tarragon, 1 teaspoon thyme leaves, and salt to taste. Cover and chill until ready to serve; as long as 2 days. Makes about 9 cups or 24 servings.

Dessert tray. For each guest allow 2 or 3 *each* of small cookies and small fruits, such as tiny apples, pears, dates, citrus, or large strawberries that can be eaten out of hand. □

DON NORMARK

Trumpet and organ *concert will be followed by serve-yourself dessert of cookies and fruit on scissor-leg tray table*

GLENN CHRISTIANSEN

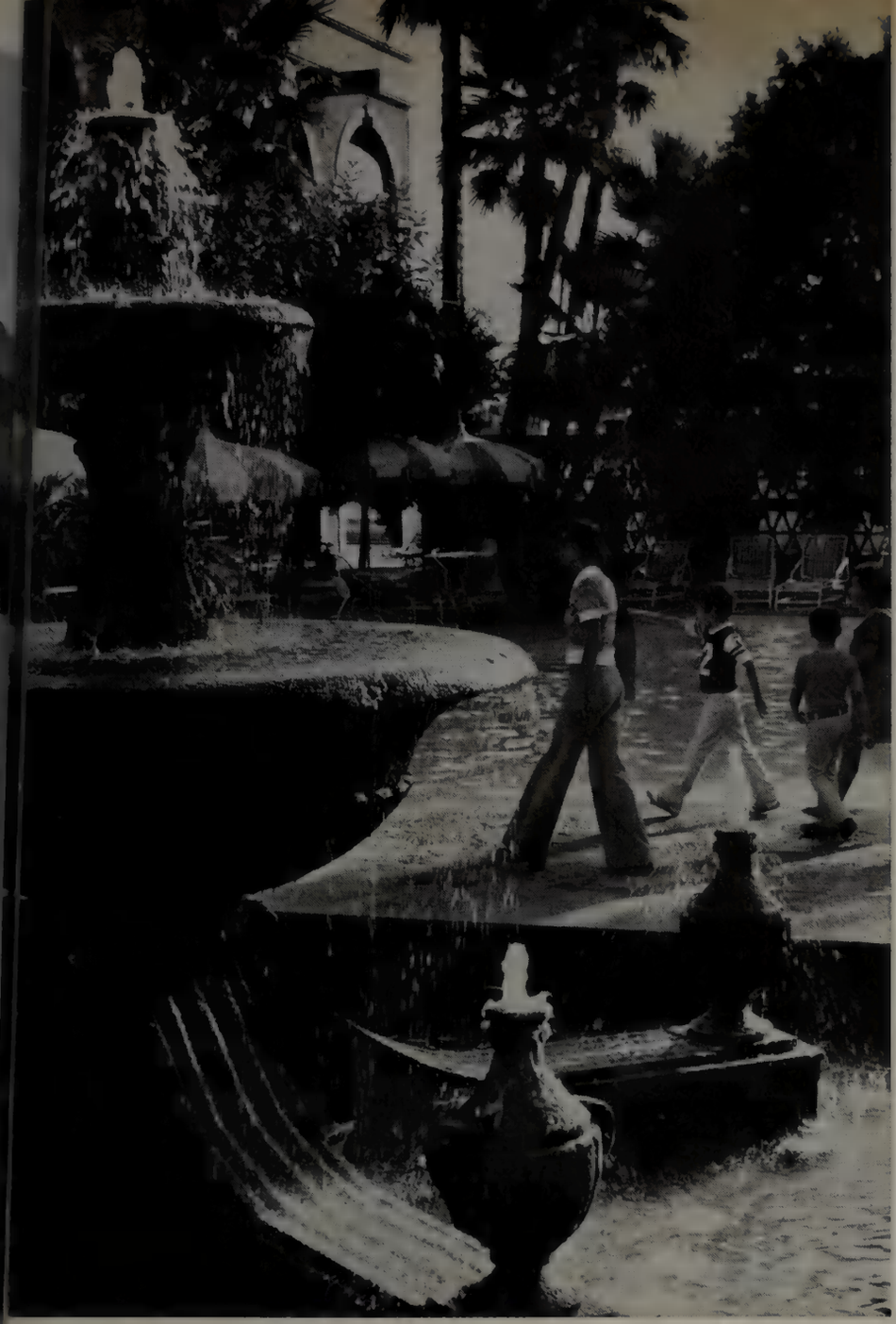


Coming down *east side of Rumorosa Grade, well-paved highway leads through bouldered landscapes like this to low desert*

Along unpaved segment *between San Felipe Highway and Trinidad Valley (Valle Trinidad), working road (right) parallels swath cleared for highway*

Now you can loop the top of Baja

Tijuana-Mexicali-San Felipe-Ensenada in 3 to 4 days, ocean to desert to gulf and back, most of the way on paved road



Fountains, *garden pools, swimming pools, palms, and shade trees create welcome cool green oasis behind walls of Hotel Lucerna in low-desert Mexicali*

For anyone who has always wanted to sample Baja California, the paving of the road most of the way from Ensenada to the Mexicali-to-San Felipe highway has opened up new trip possibilities.

The most ambitious is a 500-mile loop around the rough triangle formed by Tijuana, Mexicali, and San Felipe. All three of these plus Ensenada offer motel and hotel accommodations. The longest interval between them is the 168 miles from San Felipe to Ensenada, of which only 30 miles is still unpaved.

This trip is best for those who have been to the desert before and found that they like it. Baja can be hot in summer, and parts of it may appear empty as far as the eye can see. But desert aficionados see variety where others see emptiness, and heat makes the Gulf waters all the more inviting to San Felipe's loyal fans, who go there mainly for the fishing, seafood eating, and the life on the beach.

Camping can be attractive. However, cautions are in order, especially if you are a novice at desert camping. Carry drinking water to last two or three days if necessary. Unless you travel with two or more vehicles together in a caravan, better stick to the regular campgrounds and trailer parks. For a listing, see *Sunset Western Campsites 1977* (Lane Publishing Co., Menlo Park, Calif. 94025; $3.95).

Governor Milton Castellanos of Baja California recently told a *Sunset* reporter that, despite what may be reported from elsewhere in Mexico, the percentage of crime has not increased there. But the odds change, he said, when people run risks by camping in isolated places miles from the nearest habitation, or by going for midnight dips at isolated beaches.

Inland temperatures will be rising in April but are still two months away from their peak. Try to avoid taking this trip during Easter week (April 3 to 10), when San Felipe, in particular, is jumping with college students and vacationing families. Confirmed reservations are advisable in Tijuana, Ensenada, and especially Mexicali and San Felipe. For a list of places to stay in latter two, write to the Mexicali Tourist and Convention Bureau, Avenida Reforma Y Calle "G," Mexicali, Baja California; telephone (903) 762-4225.

Better allow at least three days for the trip. You will need Mexican auto insurance, purchasable at the border, and tourist cards (free) for everyone in the party, available at border stations. A good many places near the border accept dollars as readily as pesos, but you may need pesos farther south, so you had better change some money at a bank near the border just in case. The peso is now worth about 4 to 5 cents; the exchange is 20 to 25 for $1 U.S.

If you don't know some Spanish, carry a phrase book for times you might need it. "Extra" gasoline (92 octane) now costs 16 pesos per gallon.

Tijuana to Mexicali (123 miles)

This is an easy 2 to 3-hour drive, quietly pastoral at first, then more dramatic, all of it fairly close to the California border.

Get your Mexican auto insurance at San Ysidro. In Tijuana, take Boulevard Agua Caliente south past the racetrack and you will find yourself on Mexico Highway 2 heading toward Mexicali.

Good two-lane highway winds through grassy hills and farm fields with occasional olive groves and vineyards. You hardly notice the climb to Tecate, about 30 miles out, a pleasant little town noted for its brewery (home of Tecate beer) and for Rancho La Puerta, a spa devoted to helping its guests lose weight. You might stop in Tecate for refreshment and perhaps a stroll around the town center for its tree-shaded plaza.

Then you climb once more, imperceptibly, across a succession of uplands to oak woodland, glassland, redshank chaparral, and finally juniper-piñon woodland as you near La Rumorosa, a tiny settlement at the top of a famous grade. Before you is the grand surprise of the trip, a startling view from 3,900 feet out over hundreds of square miles of desert.

You drop several thousand feet in the next few road miles. At the bottom you cross dry desert for a while, enlivened by a good deal of construction activity on the Colorado River - Tijuana aqueduct. Beyond, you come into irrigated agriculture, then Mexicali gradually makes its presence felt.

Mexicali, with a population of almost half a million, may surprise you. Capital of Baja California (northern half), it is

Mexicali's only large border city with no large U.S. city as its neighbor. This April it celebrates two anniversaries—the state's 25th and its own 75th—with its grand Fiesta del Sol.

Highway 2 approaches Mexicali from the southwest. First you come to a junction with the bypass to the San Felipe highway. Then you reach a second junction with broad Boulevard Lázaro Cárdenas, which will take you east to the two major north-south streets most important for a visitor to know: López Mateos and Benito Juárez - Justo Sierra.

López Mateos is landscaped with cactus and follows the railroad. Turn north on it to see the big new civic and commercial center. Impressively large for a city of this size, this urban renewal project on 200 acres of open land includes a big new bull ring, striking government buildings, and a cluster of smaller buildings destined for shops and restaurants.

Along Juárez-Sierra, farther east, you find most of the hotels (Lucerna and Holiday Inn are largest and newest), food markets, restaurants, gas stations.

Reforma and Madero and certain other streets just south of and parallel to the border contain most of Mexicali's other major centers of activity: the state capitol, shops, banks, a park. Drop in at the tourist office (*Turismo*) on Calle del Comercio, just south of Reforma, for maps and literature.

For a pleasant interlude, especially if you have children along, seek out the "city woods," or *Bosque de la Ciudad.*

From López Mateos, take Lázaro Cárdenas west about 2 miles and turn right on Cañada; go about ⅓ mile then turn right to the street leading to the park entrance on your right. The park has no posted name; the landmark is a little grocery store with a sign, *Abarrotes la Terminal.*

At the entrance, you pay 5 pesos to park, 2 pesos admission per adult and 1 per child. Inside, you find a planted forest beside a lake that has boats and a swimming beach. There are picnic tables, snack stands, a miniature zoo, and amusement rides.

Mexicali to San Felipe (121 miles)

Take either Benito Juárez or López Mateos out of Mexicali. At the second traffic circle (the Sánchez Taboada monument) take the right-hand road. Soon, at the southern edge of town, you will pass several cemeteries so filled with monuments that they seem like extraordinary collections of sculpture bleaching in the desert sun.

Before long, irrigated fields fall behind and you are in dry desert, as the stark, rocky Cucapah Mountains (Cocopah on U.S. maps) begin to crowd next to the road. You pass occasional farms and a hamlet or two, then a channel of the Colorado River where there are some primitive camps.

Finally, the mountains pull back and the road becomes a fill causeway crossing immense mud flats that stretch a seemingly infinite distance on either side. They are part of the tidal system of the margin of the Colorado delta, and may be wet after a rain or a very high tide.

Beyond, the highway passes alternately through mountains, then across alluvial plains, with the salt flats now on the east. A distant pyramidal peak marks the site of San Felipe, and you know you are getting close when the salt flat horizon shows first a stripe of white, then the unmistakable blue water of the Gulf of California.

Nearly 90 miles out of Mexicali you reach the first turnoff toward Valle Trinidad and Ensenada. A mile or so farther on is the second turnoff, by a gas station with three tall poles in place of a lettered sign. The two roads join a short distance out in the desert.

Your approach to San Felipe is signaled by the signs of half a dozen beach camps down the desert slope to the left, where a modest fee buys you a trailer or camp space, water, and perhaps a hot shower. There are also several motels, mainly south of town near the best swimming.

A paved street parallels the beach for several blocks; other streets are dirt. Houses and other buildings are largely one or at most two stories. Trees are not much in evidence, but the town is beginning to look neater than it used to. The sparkling new city offices and a new power plant are highly visible. We even saw a truck to haul away trash.

You'll find small stores including groceries and produce, a restaurant or two, the home bases of several sportfishing operators, and four small fish markets where specialties are fresh shrimp, clams, and other seafood brought in by the fishing cooperatives who supply the packing houses. "The Clam Man" on the road into town, sells at a higher price but will cook things for you while you wait.

Habitual San Felipe campers know the joy of fresh shrimp grilled over the campfire, brushed with garlic butter and sprinkled with lime juice; and the fresh clams, done when they open by themselves on the grill, need only a squirt of lime (1 drop liquid hot pepper seasoning optional) for delectable eating. Seafood is also a local restaurant specialty; nearly everything else is trucked in from afar.

San Felipe to Tijuana (238 miles)

You don't have to do the whole trip in a day. Ensenada, 168 miles out, is well equipped with overnight accommodations. You may be threatened with mutiny from the back seat when you leave Mexico Highway 5 and turn onto unpromising dirt track stretching away to the mountains on the western skyline. But take heart. Paved road will actually appear within the hour.

High tides *float shrimp boats to "dry dock" for repairs on San Felipe's beach. They're refloated on another high tide a month or so later*

Giant cardon. *Magnificent specimen of world's largest cactus appears at right about 28 miles after you head west from San Felipe highway*

This segment of the trip is perhaps most dramatic of all, a sample of Baja's desolate splendor. You see country known to relatively few travelers so far. Some of the landscape might be Scotland; the rest is pure West. Ranches are few, towns scarce.

Last year the route was precariously passable—until the hurricane in Septem-

WALTER HOUK

GLENN CHRISTIANSEN

In Plaza Civica, *just off Boulevard Costero in Ensenada, monumental heads are Mexican heroes (left to right) Juárez, Hidalgo, and Carranza*

Shrimp boats in San Felipe, world's largest cactus as you head west, the heroes' welcome in Ensenada

ber put all roads out of commission. Now all is repaired, the remaining 30-mile gap has been graded, and the pavers are at work again.

This month the desert may be either dry and unappealing or—if rain has been recent—green with ocotillos in leaf and perhaps strewn with wildflowers.

You're heading first for San Matías Pass, a low-level crossing between two major ranges, Juárez on the north and San Pedro Mártir on the south—dominated by the awesome east face of the peninsula's highest mountain, 10,126-foot Picacho del Diablo.

A chaparral-clad upland is prelude to the impressive volume of Valle Trinidad (Trinidad Valley). Beyond, you climb to another, higher plain, dotted with piñon and juniper, then descend through a mountainous stretch to a rolling valley cleared for wheat. Finally, there's just a line of high hills (or low mountains) between you and Ensenada.

These days, Ensenada probably needs no special introduction to most Western travelers. But the fairly new Centro Artesanal, the government-sponsored folk art store at 1310 Avenida López Mateos, just south of the arroyo (dry river) that splits the city, shouldn't be missed. You might also like to know that the Santo Tomás Winery gives tours, sometimes followed by a wine tasting. Drop by the winery, at Avenida Miramar 666, for the latest tour information.

It's only about 70 miles from here to Tijuana. You have a choice: Mexico 1D, the fast toll road (about $2.60 to Tijuana); or Mexico 1, the more leisurely old road. The old road is a pleasure for its rural passages and close-up contact with beach towns—but take it on days of low traffic only.

One intermediate stop worth making from either road is Rosarito. The refurbished 50-year-old Rosarito Beach Hotel is coming to life once more, accompanied by a row of specialty shops, including some with good handcrafted work. Also notable in town are a bakery, a basket maker, and acres of clay pots in a number of stalls—ranging from excellent to pure trash.

In case you need the hint: The U.S.-bound lanes at the Tijuana border crossing get jammed to capacity early on weekend and holiday afternoons.

For further reading

The most up-to-date guidebook on Baja that we know is *The Baja Book*, by Tom Miller and Elmar Baxter (Baja Trail Publications, Box 15444, Santa Ana, Calif. 92705; revised 1977; $8.95). It should be available by mid-April.

Also quite current are *Baja California* and *Baja California Accommodations*, issued by the Automobile Club of Southern California, free to American Automobile Association members. □

Water-short gardening...here ar

Some whole new questions will perplex home gardeners this year in northern California, Nevada, Utah, and Colorado: How do you keep valued plants alive when water is scarce? And should you plant summer annuals and vegetables at all this spring?

We have answers to those questions—and the many lesser questions that they breed—on these four pages.

But, as you read, keep several things in mind. A second year of drought in northern California with a population of 8 million is unprecedented. There are no built-in experts on the subject. Our advice represents the best thinking of 49 horticulturists—nurserymen, landscape architects, public garden keepers, and home gardeners. But there may be mistakes in their estimates. Some plants for which we suggest withholding water may actually succumb, but our best hunch is that they should survive.

Also, remember that your plants may respond in a different way from what we say. Some reasons:

—Your plants could be too young. Just about any plant needs water through its first summer.

—Your topsoil could be a shallow veneer over rock or could be unusually sandy, clayey, or weird in some other way. Generally speaking, plants in shallow soils and sandy soils must be watered more often than those in other soils. Plants in very clayey soils can go a little longer between waterings.

—Roots of nearby trees or big shrubs may have spread around the roots of other plants and be stealing water from them. In that case, your plants will dry out faster than we state. Many gardeners will face some tough decisions about water-greedy trees and shrubs: whether to eliminate the greedy ones or eliminate those that might suffer from greedy neighbors.

—In unusually windy spots, the moisture loss from plants is greater than it is elsewhere.

—It may rain this summer, throwing out some of this article's prognostications. Last year in the San Francisco Bay Area it rained hard *four times* during the usual dry season. That's at least two more times than the usual maximum. Maybe with our new rainless winters come rainy summers.

Various devices and materials may help many gardens get through this coming dry season:

Mulches. At last the mulch comes into its own! Bulk materials, gravel, sand, ground bark, leaves, or any such material will work. Put it on over the rooting area of plants that must have water—at least 2 inches deep.

A sheet of plastic film over soil also reduces water loss by evaporation. It's good for mulching vegetables and other row crops, but be careful around trees and shrubs: plastic-covered roots can die from suffocation or from inadequate irrigation. Ask your nurseryman for specific advice about plastic mulching around trees and shrubs.

Sprinkler systems. It's difficult to be frugal with water when it goes onto plants through a sprinkler system. Much gets lost by wind, evaporation, runoff, and by soaking into ground that has no important roots. Of course there are circumstances (large areas, limited time) where a sprinkler system is essential. But if you can avoid it and put water on by hand you will probably save water. Some emergency ordinances written in the past year have prohibited all use of sprinklers.

If you are allowed to use sprinklers and if you are going to budget your water, you'll probably find that you could make your greatest water saving by cutting off the lawn circuits. Water the lawns by hand (time-consuming) or not at all. Generally, lawns are cheaper and easier to replace than shrubs and trees.

At *Sunset's* home grounds in Menlo Park, we are reducing our lawn sprinkling sharply this year. We're considering replacing some of the lawn area with drought-tolerant ground covers.

Drip systems. You can water with a drip-irrigating system and use approximately half the water you'd use with aboveground sprinklers, furrows, or flooding. If you have enough fresh water, consider a drip system for such uniform plantings as vegetable gardens, beds of annuals, perennials, ground cover areas, rose gardens, hedges and screens, camellia collections, or young orchards (see pages 292 and 293).

In a landscape of mixed plantings, total drip irrigation has some problems. Emitters soak only tiny root portions; established root systems already range deep and wide. You can, of course, add more emitters. But the system can't think for you; it can't tell that the *Arbutus unedo* doesn't need any water, thanks, but the *Asarum caudatum* is wilting. In some systems you can gradually overcome this handicap by regulating the outflow from each emitter.

Clever, homemade systems. In the past two months, you've probably seen newspaper pictures of clever gray-water collecting and distributing systems that home owners have put together. In various ways, the systems take water from bathtubs, showers, sinks, and washing machines and deliver it to big plastic garbage cans for storage. The water may be siphoned to the cans or pumped through tubes by submersible electric pumps that cost about $20 to $30. It can flow into the garden through valves and fittings at the bottoms of the cans.

Subsurface irrigators. They have been on the market for years but became very popular suddenly this year. They are rigid pipe and tube devices that you attach to the end of a hose, push into the soil with your foot, and turn a valve to let water out underground. Most people favor the type that's meant to be an underground feeder. For this year, we recommend that you leave the fertilizer chamber empty and use the device just to deliver water to the roots.

Antitranspirants. These products put a temporary moisture seal on the surface of leaves to prevent moisture loss. They are good for protecting broad-leafed plants from frost and for minimizing wilt during transplanting jobs. The verdict of our panelists was that they aren't effective in reducing irrigation during the summer.

The hoe. Don't forget this wonder implement. With it you can regularly chop off the tops of emerging weeds which, if left to grow, could cause a major loss of your valuable soil moisture.

Prune to reduce water loss?

Should you prune a plant in order to reduce the total leaf surface and thereby reduce water loss? (Moisture exits from

some guidelines

49 horticulturists join Sunset in making educated guesses for northern California

plants through their leaves.) Or, on the other hand, might the pruning cause new growth, which in itself would lead to the use of more water?

Except for thinning citrus (see below) and removing basal sprouts from almost any plant, the general question never was resolved.

The happy ending

When this drought concludes, Western gardeners will be much wiser about the amount of water that plants *really* need in order to perform. Many of us may find that for all these years we've been pouring water needlessly on certain woody plants and even some annuals because we thought they needed it.

Which plants should get the water you have? No water for the plants marked*, some for the others

Listed below are what we consider northern California's most widely grown plants that normally demand some water. (Some plants need no water once established—see page 78 of the October 1976 *Sunset* for the 92 most widely grown drought-resistant plants.) The plants on this list marked with * —55 altogether —are the take-a-chance plants; they stand a good chance of surviving the drought without any watering. They may suffer and look bad but should recover next winter. The other plants will need some water, along with other special attention as described.

Abelia*

Japanese maple (*Acer palmatum*). Large unnamed seedling types can make it through a drought—in fact, many of them never really get irrigated. Unfortunately, the expensive, smaller, grafted ones (named varieties, usually with finely cut leaves) are drought-susceptible.

In England's drought last year, the grafted forms died regardless of emergency ministrations—shade, protection from sun and wind, mulch. But in Marin County last year, grafted ones hung in; they even survived with gray-water irrigating, although there was some burning of leaf edges.

Gray water is not good as a steady diet for fine-leafed Japanese maples in containers. Water them with fresh water whenever you can get it.

Agapanthus*

Silk tree (*Albizia julibrissin*)*

Alder (*Alnus*)*

Apple*

*Arctostaphylos uva-ursi**

Asparagus*

Aucuba*

Azaleas, evergreen. They're more sensitive to drought than rhododendrons.

Little azalea plants, only recently out of the florist or nursery container, probably aren't worth saving—they are replaceable. Direct your noble effort to old plants several feet high and wide. Use a soil penetrant or wetting agent to help water go straight down to the roots.

As much as possible, use clear water on azaleas. A drooping of new foliage indicates that the plant needs water and can't hang on much longer without it.

Japanese barberry (*Berberis thunbergii*)*

Birch (*Betula*). Some are more dependent on water than others. Those that have grown up in lawns have probably become dependent on lawn sprinklings.

If you're cutting off lawn water and want to save lawn birches, continue to water the grass beneath the branches. Give it—or any birch root area—one good soaking with gray or clear water in July or August and continue monthly until rains come.

Boxwood (*Buxus*)*

Camellia. If yours are roof-high and haven't been watered for years, continue not watering them as long as you can. For smaller and younger camellias, water once a month with clear water if possible, with gray water if it's all you have. Also mulch young plants with leaf mold, peat moss, or similar material.

Watch for wilting of new growth. It will come back quickly with a watering.

Contrary to the pattern with other plants, big camellias seem to do better without water inland (Sacramento, Walnut Creek, San Jose) than they do in the fog belt.

Atlas cedar (*Cedrus atlantica*)*

Flowering quince (*Chaenomeles*)*

Chamaecyparis. The fancy dwarf types are as water dependent as the fancier Japanese maples. Save fresh water for them. They don't need much because they have restricted root systems, but they do need some moisture all the time.

Camphor (*Cinnamomum camphora*)*

Citrus. Their responses to this second year of drought will vary. Reactions will be determined by: the kind of citrus, soil type, exposure, local climate, and one big surprise. The surprise is that the aboveground parts of a citrus may be growing on any of about half a dozen different rootstocks and each rootstock has its own water requirement—some are better at seeking out water than others.

Watch for wilting, discoloration, leaf drop, and foliage sprouting from the rootstock—in that order. Water when you see the first signs and more frequently if you can. If you can't get enough water, prune to reduce citrus to ⅓ its present size (reducing leaf surface reduces transpiration of water). If the pruning induces new growth, cut it back.

Pink diosma (*Coleonema pulchrum*)*

Coprosma*

Dracaena palm (*Cordyline australis*)*

Jade plant (*Crassula argentea*)*

Italian cypress (*Cupressus sempervirens*)*

Daphne odora. It gets sick or dies from overwatering more than anything else. The drought may be the best thing that

ever happened to daphnes whose owners water too much or too often.

Water a small daphne (knee-high or smaller) heavily with clear water once a month. Bigger ones can probably go longer—two months to the entire dry season. Some splendid daphne bushes never get watered.

Fatsia japonica. Only a small portion of these plants go onto the water-dependent list: those that get lots of sun, especially afternoon sun. Water with any kind of water when you see their new stems and leaves wilting. (Fatsias in shade are on the withhold-water list—they can take it.)

Pineapple guava (*Feijoa sellowiana*)*

Ferns—low. Most respond to drought by turning fronds brown and going dormant. And within the next six months they will probably respond to rains or irrigation by growing new green fronds. Let the old brown fronds stay in place to serve as a mulch.

If it's a valuable fern, save what fresh water you can and pour it directly into the heart of the plant.

Ferns—tree type. You may be able to get one through by watering its crown with about 2 quarts of fresh (not gray) water every week or two, depending on the weather. (The water that runs down the sides of the trunk gets into the plant's system because the trunk is actually an aerial root system.) When you have water available, wet the ground as far out as the tips of the fronds.

Forsythia*

Fuchsia. Surprisingly, the experiences in Marin County last summer showed that it's not such a water baby as we all thought—if it's old enough to have a woody trunk. Such plants can go a very long time without wilting, and when they do begin to wilt, they can be sustained with gray water—another 1976 Marin County finding.

Even if an established, woody-trunk fuchsia loses all its leaves from lack of water it can probably go through an extended dormancy and come back.

Young fuchsias with stems still soft and succulent need more water—gray water is okay. Even hanging-basket fuchsias can be sustained with gray water.

Gardenia. Routinely, *Gardenia jasminoides* 'Mystery,' the popular big-flowered one, is hard to grow in most of northern California. It always needs lots of heat, water, and fertilizer.

If you are one of the few people with large gardenia plants that produce many flowers, save up fresh water as you can and put it on as close as possible to your normal watering frequency. Don't use gray water.

Fertilize only if you can water as often as in other summers.

Ginkgo*

Grevillea*

Hebe. Small-leafed kinds take drought better than larger-leafed kinds. If you withhold water too long, any kind may dry up but might come back if next winter is rainy.

Since the typical hebe doesn't represent a big investment you could let plants go and replace them later—with less concern than with more expensive or more rewarding plants.

Ivy (*Hedera*)*

Hydrangea. In Marin County last summer many survived on gray water, and very little of that, but they lost their leaves. Stem tissue remained alive.

English holly (*Ilex aquifolium*). It and its varieties are sensitive. Put a mulch over the roots and water monthly from now until November—with gray or clear water. (Many other kinds of *Ilex* can probably get through the dry season with little or no water.)

Crape myrtle (*Lagerstroemia indica*)*

Leptospermum scoparium hybrids*

Privet (*Ligustrum*)*

*Liquidambar styraciflua**

Tulip tree (*Liriodendron tulipifera*). It suffered from drought in Marin County last summer and probably will elsewhere this year. All its roots are big and succulent, and it's always known as a tree that's fond of summer water. If possible, give it a watering once a month with clear or gray water.

Liriope and Ophiopogon*

Japanese honeysuckle (*Lonicera japonica*)*

Magnolia. Evergreen and deciduous have surprisingly shallow root systems considering the size of the tops. Very large trees might make it through a second summer of drought with no irrigation, but small to medium-sized trees should get some water. If possible, give them a heavy watering once a month. Use clear water if it's available, gray water otherwise. Put a mulch over the roots beneath the branches.

Mahonia*

Moraea*

White mulberry (*Morus alba*)*

Myoporum*

Nandina*

Virginia creeper, Boston ivy (*Parthenocissus*)*

Passion vine (*Passiflora*). Water once a month with clear or gray water. If the vine covers a big area, cut it way back to reduce the leaf area.

Pear*

New Zealand flax (*Phormium tenax*)*

*Photinia fraseri**

Dwarf spruce (*Picea*). If you have some of great value, run a drip irrigation line to them, or put an individual dripper (can or plastic jug with a hole in the bottom) by each plant, and water once a month with the clearest water you can find.

*Pittosporum tobira, P. tenuifolium, P. eugenioides**

Podocarpus. Young plants and plants in the sun are more likely to suffer than older ones and ones in the shade. A drought-suffering podocarpus first loses leaves, then twiglets, and finally branches. Try not watering at all until signs of stress come, then water just enough to keep the stress from getting worse. Use clear or gray water.

Potentilla verna. This attractive ground cover is comparatively inexpensive. If water is limited, let it go.

English laurel (*Prunus laurocerasus*)*

Pyracantha*

Evergreen pear (*Pyrus kawakamii*)*

Raphiolepis*

Rhododendrons. They seem to tolerate drought slightly better than evergreen azaleas. But they can't be called tough or drought tolerant. When a rhododendron needs water the leaves hang; any new growth will wilt. Foliage will perk up if you give the roots adequate water soon enough.

Use fresh water as infrequently as possible (watch for the wilting signs). Gray water with soap or detergent is not recommended, but may save a valuable rhododendron if that's all you can get.

In hotter sections of northern California expect some sunscald on drought-suffering plants and, as salt content in water rises, burned leaf edges.

Rose. The old and (often irreplaceable) plants can probably pull through a summer without watering.

To maintain a young plant through summer, apply a mulch of gravel or other material that doesn't absorb water. Water the plant when you can—with gray or clear water.

All roses will probably bloom this month or next. But, with little or no water, they will probably not bloom much the rest of the year. Let the first crop of flowers form seed heads—it makes the plants all the lazier about putting on new growth and that's what you want this year.

Cut off any suckers that appear at or near the base of the stem, then don't do any other pruning until winter.

Weeping willow (*Salix babylonica*). It takes all the water it can get. And this year that may be much more than you can supply.

The hard-hearted recommendation: let it go. It may not die—it may eke its way

rough the waterless summer, becom- g twiggy and sparse before winter. Or may surprise you—its notorious water- ıding roots may find a sustaining urce you don't know about. If it does e, a replacement will grow quickly ıen water becomes available again.

*ırcococca ruscifolia**

alifornia pepper, Brazilian pepper (*Schinus molle, S. terebinthifolius*)*

edwood (*Sequoia sempervirens*). In the ıgbelt (if fogs come in this summer), ere's no reason to worry. They sustain ıemselves with fog drip. Inland, if you ın spare fresh water, sprinkle it on the ound beneath the trees like a fog drip. a redwood tree is forming suckers from roots or trunk base, cut them off.

Stone fruits, fruiting, and flowering*

Syzygium paniculatum (Eugenia myrtifolia)*

Star jasmine (*Trachelospermum jasminoides*). As a ground cover, it's expendable and easy to replace. But if you grow it in your garden as a big vine or espalier, star jasmine is worth working on. Prune it some to reduce leaf surface, water when you can, and mulch. Star jasmine tells you when it's under stress: It begins to drop foliage and turn red.

Brisbane box (*Tristania conferta*). It's not completely drought tolerant. But one good summer watering (gray or fresh) should pull it through. Do it in July if spring and summer are hot and windy, or in August if the summer is cool.

Chinese elm (*Ulmus parvifolia*)*

Viburnum. Deciduous kinds take drought. But not some evergreen kinds: *V. cinnamomifolium, V. davidii, V. japonicum,* and *V. odoratissimum.* Strangely, they don't transpire much but they need water around the roots. Two big waterings during the summer would probably be enough. Of all the water-needers, *V. davidii* is the one most likely to suffer from gray water.

*Vinca major, V. minor**

Mexican fan palm (*Washingtonia robusta*)*

*Yucca gloriosa**

What about water-thirsty annuals? Some are less thirsty than others. California nurserymen name a dozen

f you happen to have as much water ıis year as you did in past springs, you an grow whatever bedding plants your ırseries offer. But if you have limited vater, you'll want to be rather careful ıow you choose annuals for summer lowers.

Following is a list of the dozen bedding ılants that can go the longest time withıut water. The panel of northern Caliornia nurserymen who selected the ılants figure that most established anıuals can go 10 days between watering. All the ones on this list can go that long ır longer once they're established.

The drought advice for woody plants page 126) also applies to annuals: especially the sections on mulches, drip systems, clever homemade systems, and the ıoe. A drip system would be the ideal way to water annuals this year; it can put adequate water just where it's needed to sustain plants.

Celosia—feathers and cockscombs

Plants started from seed seem to be quite drought tolerant. But most people now buy big plants in bloom—many people water these too much. Just water them in, let them take hold, and water again when they show signs of needing it.

Coreopsis—yellow to maroon daisies

This American native is drought resistant by nature—it grows wild along highways in Texas and Oklahoma. Generally scorned in the past as being too weedy, it has become more popular in the last couple years in Marin and Sonoma counties. Give it a good drench at planting time, and then forget it—or drench it again if it happens to wilt.

Cosmos—daisies on big, airy plants

It's not offered much as a bedding plant these days, but easy to grow from seed (broadcast seeds rather than planting in rows—rows waste water). Seedlings up to 3 or 4 inches high transplant well. Water young seedlings often enough to keep them growing fast, but slacken up when they begin to mature.

Hollyhock—narrow spires of flowers

The old-fashioned kinds are ideal for a limited-water garden: They send roots down deep, fast. 'Summer Carnival' is characteristic of this type. But the dwarf hollyhock has a fibrous (shallow) root system. 'Majorette' is intermediate between the two types.

Petunias—broad trumpets in any color

Petunias are really quite drought resistant—most gardeners overwater them. Overwatered petunias bloom less than underwatered ones. Give a good soaking at planting time and then hold off watering as long as you can. It's all right for plants to wilt in the day and recover at night, but if they wilt one day and are still wilted early the next morning, they need water.

Portulaca—tiny roses, succulent leaves

This is easy to grow from seed. During its initial growing stage, a lack of water will stop vegetative growth but not flower production. Full-size plants will coast for weeks, flowering all the while, from each heavy watering.

Rudbeckia—big, rough daisies

This tough, deep-rooting plant needs deep initial watering. After it's growing well, water only when foliage wilts or looks bad.

Sweet alyssum—white to purple puffs

Grow it from seed or from nursery plants—it will give a grand performance on very little water. It has the mustard family's survival secret: a heavy, long taproot.

Verbena—mats with flat flower clusters

The hybrid verbenas that come in a variety of colors are very drought tough. Give nursery plants their big soak at planting time.

Vinca rosea—white to rose flowers

This one looks like a sissy (shiny leaves, bright flowers), but it isn't. It thrives on minimum water; if you water it too much, it will rot off.

The shade lovers

There aren't as many annuals for shade as for sun—but at least there are two drought-tolerant ones.

Begonias—shiny leaves, many flowers

Fibrous begonias grown in the shade (especially afternoon shade) will go a long time without water. But they need water if grown in the sun. F_1 hybrids tend to withstand adversity better.

Impatiens—white to scarlet flowers

After taking hold, it can go a long time without water. Try watering no more than every 10 days. Before wilting, the foliage gets a gray cast, a loss of glossiness. Impatiens plants don't grow much until the days and nights get warm—May or June planting may be preferable to April. □

Fish for breakfast?

Yes, for all sorts of reasons. Quick preparation in most cases. Variety. Surprise. And nutritional excellence . . . protein, mineral rich, cholesterol low if you wish

Kippered herring *goes from its can into white sauce (your own or bought); add dry mustard and thyme leaves to taste. Serve on cooked frozen hashed brown potatoes; top with egg slices, if desired*

Sanddabs cook quickly *in a preheated electric sandwich grill. Dip each in melted butter seasoned with dill weed, place on grill, close, and cook at highest heat for 2 to 4 minutes or until fish flakes. Serve with lime wedges*

Fish for breakfast? Why not! In camp, sizzling trout just moments from the stream is the traditional reward for fortunate early-morning anglers.

But at home, where less commitment is in order, you can also enjoy fish—fresh, canned, or frozen—to start the day. Many supermarket candidates can be ready in minutes; frozen prepared fish sticks or fish cakes are easy examples.

To spark further experimenting, we propose seven other ideas (shown here), six of which take no more time or effort than bacon and eggs (the rockfish takes a bit longer because it has to bake). Since it's hard enough already on work and school days to get everyone going, our suggestions are not exacting recipes but easy combinations with simple seasonings added to taste.

Yet each makes a nutritionally sound breakfast, rich in protein and minerals. And for those who tend to shy away from traditional high-cholesterol breakfasts, fish can be an easy anti-cholesterol solution. □

Rockfish fillet *is sauced with canned cream of celery soup, seasoned with green onions and Worcestershire. Bake at 375° about 20 minutes; add buttered croutons, bake 5 more minutes*

Smoked or barbecued cod *is bright orange-red in color. You can offer it chilled, just as it comes from the package; or, to serve hot, place the fish on a rack over boiling water and steam about 15 minutes. Accompany with fruit, bran muffin*

Sardine breakfast board *offers hot toast triangles, cream cheese (plain or with chives) or unflavored yogurt, and alfalfa sprouts. Let guests or family build their own Scandinavian-style treat to go with coffee*

Fish balls *come in a can. Lightly sauté in butter or margarine until golden brown; drizzle generously with lemon juice and garnish with parsley. Serve with a toasted, buttered bagel on the side*

Tuna generously tops *toasted English muffin half. A thick tomato slice supports the crowning mound of shredded cheese. Broil this open-faced sandwich briefly to melt the cheese*

Tall view tower *pops up at west end of low house to give whale-watchers a seaward view. Seating area in lower level is snugly below ground*

Meadow grasses *sprout from insulating earth atop main roof; they blend with landscape and keep soil in place. Skylights are high enough toward ridge line to vent excess heat, but set back far enough to bring natural light to low, windowless north side*

Tomorrow's house?

It's entirely solar-heated and it's half underground

There's a whole house here: *Covered with grass, it doesn't disrupt the meadow environment*

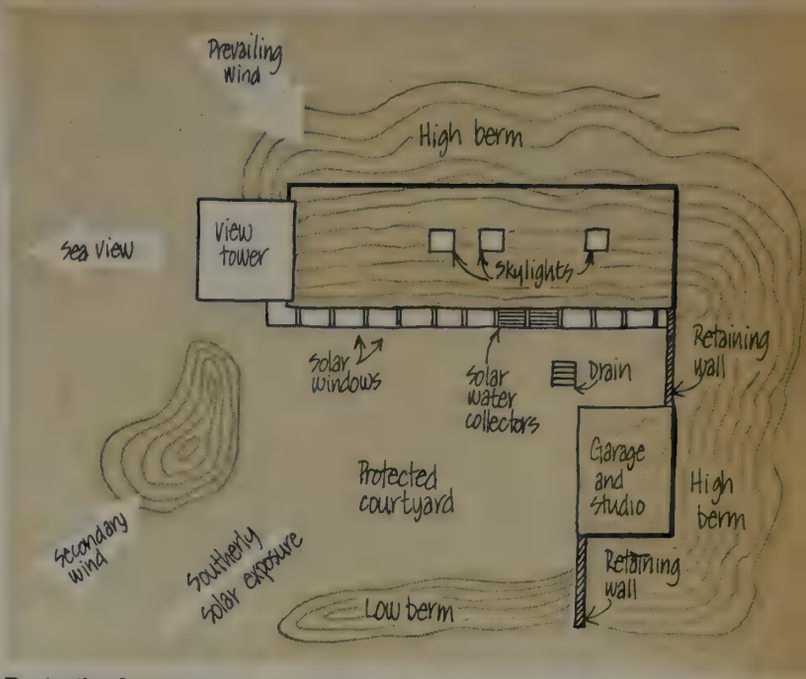
Merged with the earth, dug in and bermed over, the house is barely visible on approach. Yet this is a thoroughly "solar" structure. The sun meets virtually all of its heating and ventilating needs—without complex hardware or a conventional backup heating system.

Its function is simple: Dense structural materials absorb heat from sunlight entering a double-glazed south window wall—and the surrounding mass of earth helps hold it in.

Environmental architect David Wright designed this Sea Ranch, California, house after experimenting with similar "passive" solar approaches in cold but sunny-winter New Mexico (see page 84 of the November 1976 *Sunset*). His rationale: The often-cloudy northern California coast may have only half the sun of Santa Fe—but it also has only half the heating needs, and the sun shines fairly reliably during the coldest months.

While the house is carefully tailored to the demands of its microclimate—wind, view, sun angle, meadow setting—its

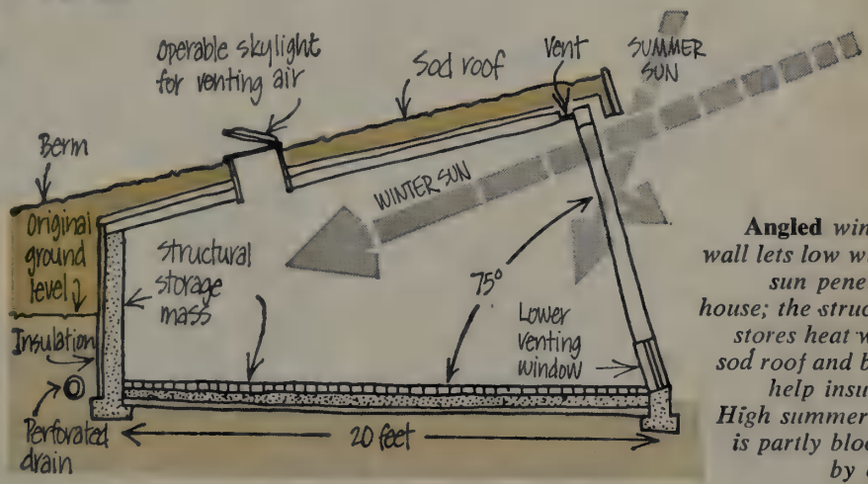
DARROW M. WATT



Protective berms *wrap around house; they slope back to merge with natural contours of surrounding land*

Sunken garden courtyard *is shielded from wind to create protected outdoor compound*

Winter sun *bathes each room with light. Brick floor stores heat for continued warmth after dark*



Angled *window wall lets low winter sun penetrate house; the structure stores heat while sod roof and berm help insulate. High summer sun is partly blocked by eave*

olar design and "underground" siting an ancient idea now being rediscovered) ould be widely adapted in the increasgly energy-conscious West.

loping steeply at 75° from the horizonl, the south window wall faces the lowngle winter sun. As the sun moves igher in summer, it is increasingly reected and blocked by an overhang.

he main structure is just 20 feet from front to back, letting winter sun strike most of the foot-thick concrete rear wall —which, with the east end wall and the brick-on-sand floor, stores heat that radiates back into the living area during cold periods. Rooms are side by side, and all but a small enclosed bathroom get direct sun. (The two south windows in front of the bathroom area contain solar collectors to heat household water.)

The surrounding earth deflects heat-stealing winds and greatly retards temperature fluctuation in both winter and summer. Tight construction avoids heat loss and leaks (you can't build underground where there is a high water table). The outside of the concrete wall was coated with asphaltic waterproofing and covered with 2-inch-thick rigid polystyrene insulation panels before the

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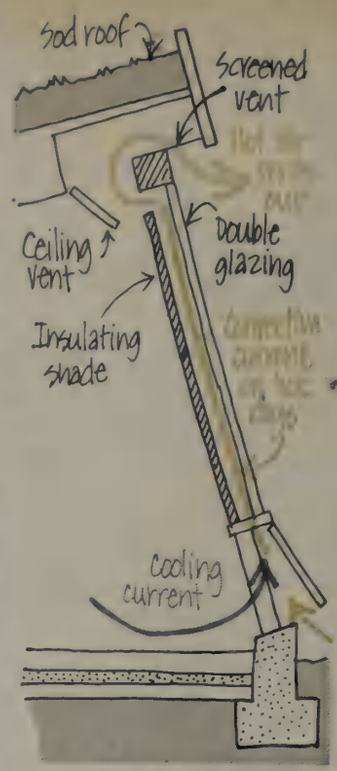


Flexibility. *Insulating shades pull down to keep stored heat in at night, or to block direct sun on warm days. On hottest summer days, ceiling vents and lower windows can be opened; diagram shows how heated air between shade and window sets up a rising current that pulls cooling air through the house*

earth was packed into place; a drain runs behind the rear wall to catch subsurface water. Rigid insulation and a moisture barrier of plastic film were laid under the brick-on-sand floor.

Fiberglass insulation was packed between the 12-inch-thick roof joists; they are topped by ½-inch plywood, standard mineral-surfaced roofing, a moisture barrier of plastic film sandwiched between protective layers of rigid insulation, wire mesh to hold the earth in place, and 6 inches of soil. Fire sprinklers are buried in the sod.

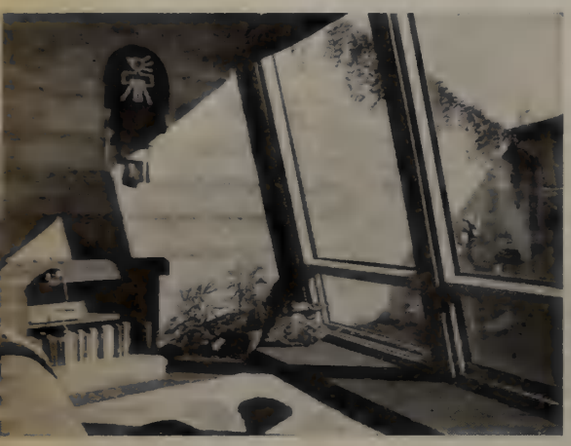
The result of this massive heat-storing construction is a thermal "flywheel" effect: Once the house is heated up, it takes very little solar energy to keep it comfortable if the heat isn't allowed to escape. A single wood stove sits near the nonsolar view tower. The house was kept small for heating efficiency; ceilings are as low as the building code allows.

Inside the glass wall, insulating shades—made from three layers of aluminized polyester sewn between outer layers of heavy cotton—help the house confront the seasons: admitting or reflecting sun, trapping heat, or setting up a "chimney effect" of rising hot air trapped between shade and glass to pull cooling drafts through the house in summer.

Stitching "quilted" the shades into 8-inch squares to provide air pockets for added insulating effect. They slide on standard sail tracks. Working the shades with the changing weather, Wright says, is "very much like trimming a ship." □

Ingenious window system is both heater and cooler

Storage mass: *Concrete bedroom wall absorbs heat when struck by sun. Wall continues outside to screen courtyard*



Single skylight *lights and vents small, windowless bathroom. Sloping lines of paneling make room feel bigger*

Wood stove *provides the only needed backup heat. Heat-radiating glass on two sides faces seating nook and main house; flat circles are for cooking*

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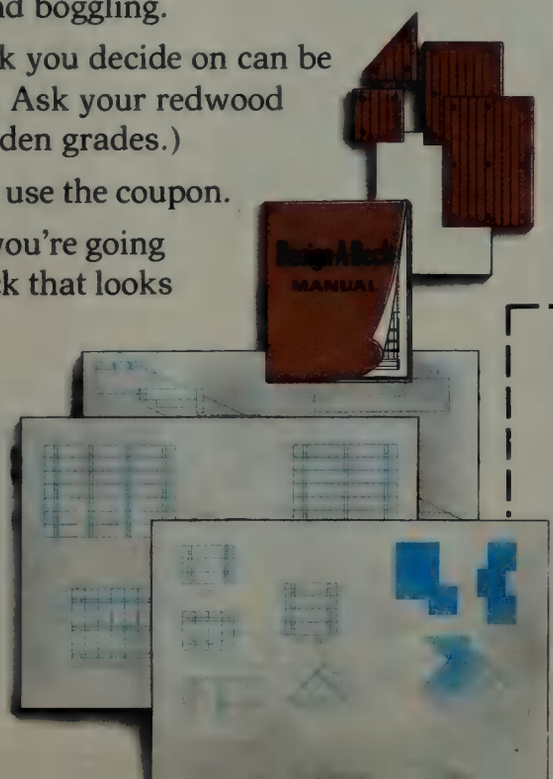

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Redwood—a renewable resource.

Full steam ahead *in Teddy's room (above), with toys strewn everywhere. It took just 5 minutes to stow them away (right)*

GLENN CHRISTIANSEN

Everything's in place on bolt-together plywood shelves

Expecting any single piece of furniture to bring order out of the hubbub of a small boy's bedroom is asking a lot. Yet this shelf unit meets the challenge quite handily. The large photograph above was taken just 5 minutes after the smaller one to its left.

Architect Donald William MacDonald designed the storage unit to be built from two sheets of ¾-inch AB-grade plywood and 40 feet of 2 by 2's. About 100 ¼ by 3½-inch hex-head bolts fasten the pieces together. (You'll need twice as many washers as bolts.) Cost of materials will range from $75 to $100, depending on where you buy them.

Cut the plywood into 12 by 16-inch rectangles and the 2 by 2's into 13-inch lengths. Along each 12-inch side of one rectangle, use a 5/16-inch bit (this allows easy fitting) to drill four holes, ¾ inch in from the edge, 2 inches and 3½ inches from long sides (see sketch).

Use that piece as a pattern to mark all the other rectangles and the 2 by 2's for drilling. Center the 2 by 2's under the plywood pattern and drill holes 4 inches in from each end; then turn the piece 90° and drill two more holes 2½ inches in (check carefully for hole alignment). For a visual accent, cut four ½-inch 45° bevels on the ends of each 2 by 2.

With washers and bolts spread out in easy reach, you're ready to begin the assembly. It's a good exercise for two people, but however you do it, the job is going to take more time than you expect. It helps if you bolt together several vertical members to the height you want before attaching any of the horizontals.

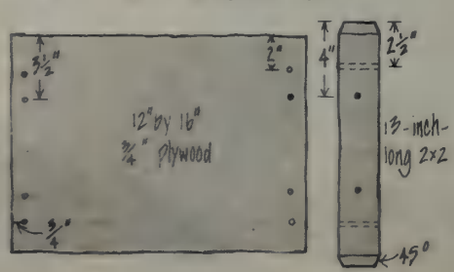
Depending on how you put it together, you can construct a unit measuring about 5½ feet tall by 6 feet long, or two smaller matching pieces, or a longer and lower unit. Here's the best part: When you move, the unit knocks down into a stack of rectangles, 2 by 2's, and a bag of washers and bolts.

We show the plywood painted. After sanding (especially the corners), a primer coat and two finish coats gave it a smooth professional look.

The 2 by 2's were given an oil finish. The unit is equally handsome when built of hardwood-faced plywood with matching edge trim. □

DAVID FENWICK

Assembly *of shelf components—plywood sections, 2 by 2's, washers, and bolts—takes time. Start by erecting a few plywood rectangles vertically, as shown in photograph at left*



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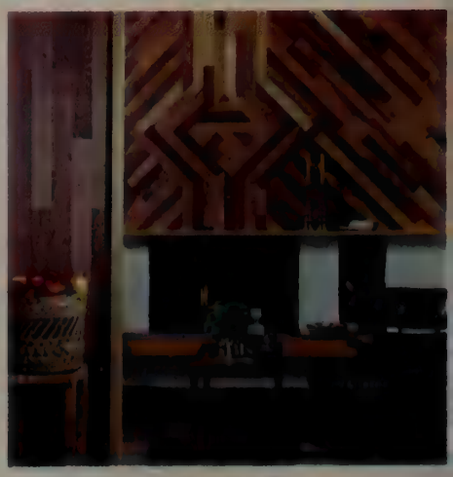

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DON NORMARK

Geometric fireplace *dramatically divides rooms in home of Roy and Diane Ledgerwood*

The fireplace stands tall

refabricated metal fireplaces can be sguised with almost any material—nce they're triple walled, you don't ave to be concerned about clearances. o sheath the fireplace shown above, ortland architect James Oliver chose e same inexpensive material used roughout the house: ½-inch gypsum oard over a 2-by-4 framework.

he result is a tall, bold form that serves s a room divider, wood storage bin, and ocal point of the whole house. The orner-model firebox allows viewing om two sides. □

Storage section *was lined with plywood, trimmed with redwood bumper strips*

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There's nothing like a travel photo for bringing good memories back into focus. But if your memories are clearer than your pictures, you should look into the Canon G-III 17.

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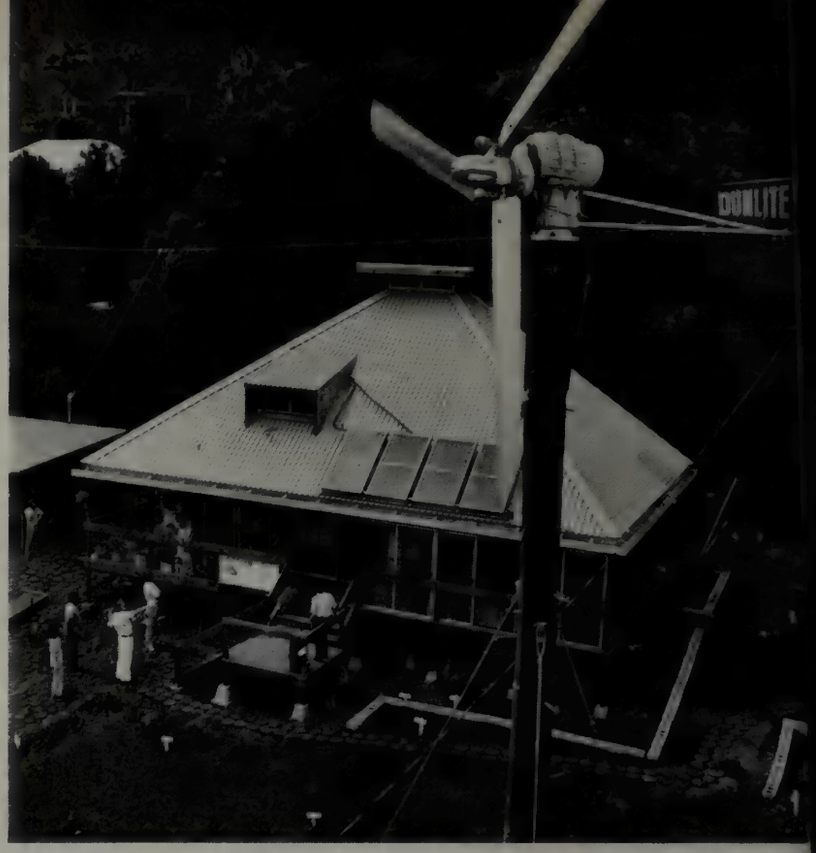
WERNER STOY

Rainwater drains *into storage, is filtered for use indoors—security against an impending water shortage in Hawaii*



Energy House *suits its climate. Opening at top of steep double roof vent hot air. Roof reflects heat. Solar panels provide hot water. Overhead wind generator helps meet electrical demand ("trade-wind power")*

Natural light *and white surfaces reduce lighting demand in kitchen; louvered windows keep it cool*

Vegetables *will grow in raised beds. Great roof overhangs protect walls and windows from Hawaiian sun*

Hawaii's Energy House is loaded with conservation ideas

While carefully tailored for subtropical Hawaii, the new University of Hawaii Energy House contains valuable energy and water conservation ideas that can apply in any climate. You can see the ideas at work: The house is open free to the public every Sunday afternoon.

Some of the features display straightforward energy technology. Solar panels on the roof heat most of the tap water, and a Swiss-built wind generator provides part of the household electricity. (The generator also charges an electric car parked in the driveway.)

But the house depends most on just good design. Space use is efficient. There is minimum roof exposure to hot summer sun. Three walls consist of sliding shoji doors with light-admitting panels and ventilating louvers; the doors slide out of the way in benign weather and close against storms (for a picture see page 88 of the November 1976 *Sunset*). Principal appliances are energy-conserving models. Signs explain the thinking behind each design and describe the environment-conscious living habits that go with them.

Water is used wisely. Rain gathered from the roof is filtered and stored for indoor use; "gray" water (from sinks, basins, laundry) is filtered for outdoor irrigation; and "black" water (from toilet, garbage disposal, dishwasher) is floated off the septic tank for backup landscape irrigation.

The Hawaii Energy House, designed by architecture professor James Pearson, AIA, is at the north end of East-West Drive on the university's Manoa campus, 2 miles inland from Waikiki Beach. It's open Sundays only, from 2 to 5. □

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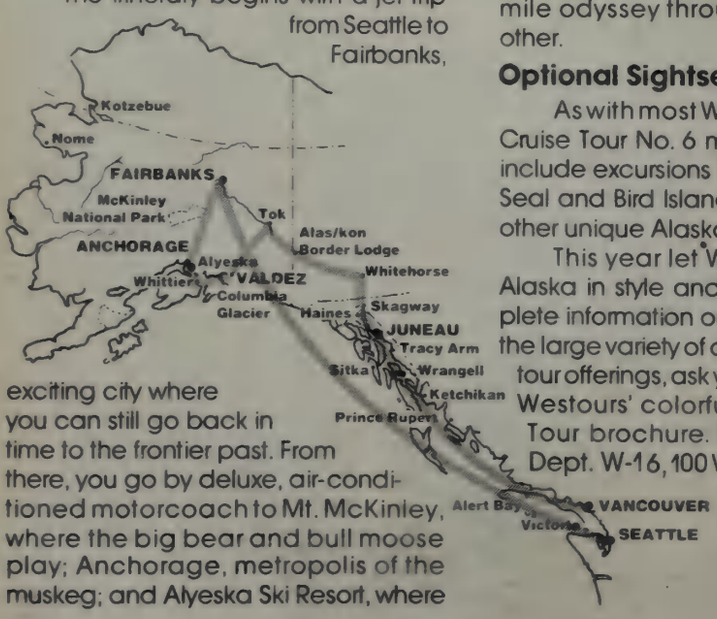
Perhaps the ideal tour—and one you can take with only a two-week vacation to review with your travel agent—is Cruise Tour No. 6.

Explore the Great North Country.

The itinerary begins with a jet trip from Seattle to Fairbanks, exciting city where you can still go back in time to the frontier past. From there, you go by deluxe, air-conditioned motorcoach to Mt. McKinley, where the big bear and bull moose play; Anchorage, metropolis of the muskeg; and Alyeska Ski Resort, where a chairlift ride offers an unforgettable, 8-glacier view of Alaska.



See Columbia Glacier and the Trail of '98.

Next, it's on to Valdez, "Switzerland of Alaska," via a cruise through Prince William Sound for a close-up look at the jagged, 400-foot-high ice cliffs of massive Columbia Glacier.

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DON NORMAR

Tacked-on veranda *above basement provides a vantage point for supervising children at play*

Outdoor space at living-room level? Add a veranda

Developing outdoor space at the level of the living room is often difficult in an older house built over a basement. This was especially frustrating to Allen and Marlyn Doan and their children, since their roomy middle-aged house occupies a big meadowlike lot on Mercer Island, Washington.

A veranda opening off the remodeled living room and adjacent kitchen was the solution of architects Van Horne and Van Horne. The deck overlooks the garden where the children play, and also frames a splendid view of Lake Washington with Seattle rising beyond. Roomy enough for dining, it measures 25 feet long and 6½ feet wide.

Connecting the veranda to the house are sliding glass doors that open wide. Ready-made wood screen panels overhead not only shade the veranda itself, but are tilted enough to help control the westerly sun that floods into the living room on summer afternoons.

The porch juts off the house on framing of 6 by 6's. The joists supporting the 2 by 3-inch decking extend back into the house structure and tie at right angles to an existing beam. Diagonal bracing bolts onto steel plates secured to the foundation. A 2 by 4-inch cap tops the 42-inch-high rail of 2 by 2's set at 5-inch intervals.

This add-on to an older house would cost about $2,000 to duplicate, including design fees. Doing it yourself could cut the cost in half. □

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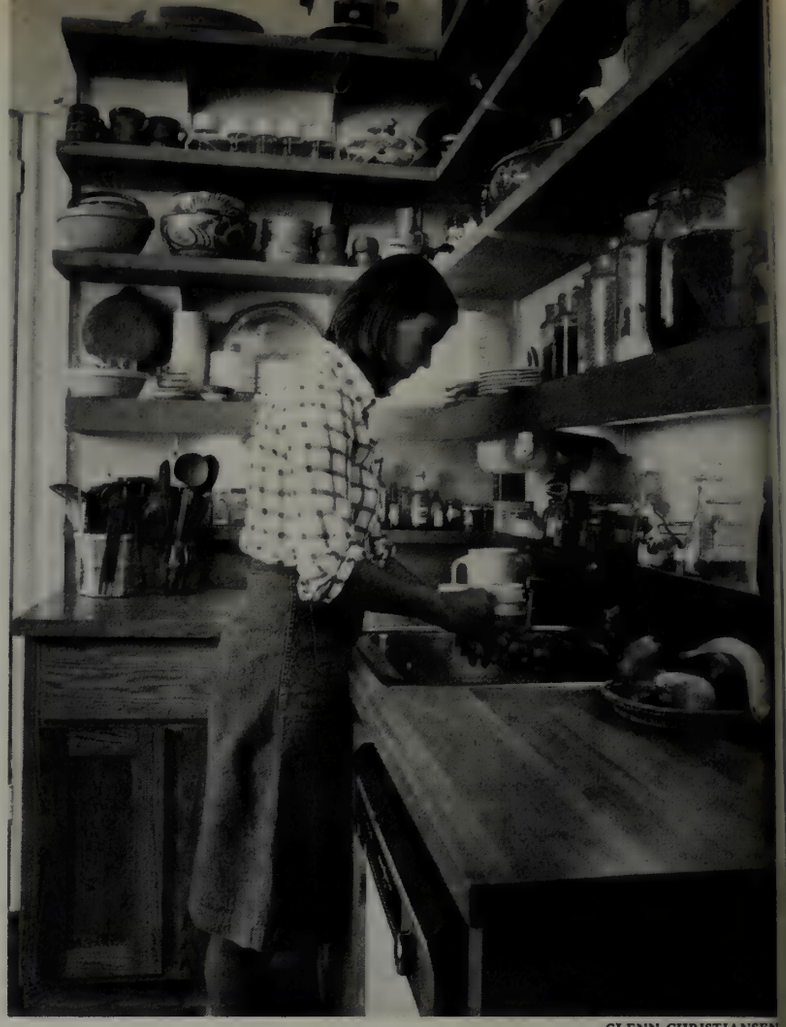
Before: *Dark cabinets above and below counters, cooktop too close to sink made kitchen work area seem small and cramped*

Kitchen done over . . . open shelves, tools and containers in view, four handsome woods



GLENN CHRISTIANSEN

After: *Light oak cabinets, open shelves, and rimmed splashboard greatly expand usable space. Shelves are 2-by-12 boards; lights are recessed under bottom shelf*

When architecture student Marion Elliott chose her own kitchen for a design project, it was the second major renovation for the Victorian room. Previous tenants had converted it—without much style or efficiency—from a small living room to the kitchen shown above.

The room had some good things going for it: oak floors under the old carpet, a fireplace, a high ceiling, and a sunny bay window. To emphasize these points, Mrs. Elliott refinished the floor and left it bare, added a butcher-block mantel to the fireplace and hung pots above it, painted the high ceiling white, and built a breakfast table and U-shaped bench into the bay.

She chose inexpensive open shelving for above the counters. "A little dust and grease do accumulate on things I don't use much, but the joy of seeing everything and having it within reach compensates."

The cost was under $50 for 2-by-12 hemlock shelves, 1-by-4 lip on the bottom shelf, 1-by-8 fir splashboard, and 2-by-4 fir spice shelf. Metal brackets and small recessed lighting units were additional. Cost of the entire remodel, including all appliances except the dishwasher, was $4,000. □

Work areas *are separate, so kitchen can accommodate several people*

Four different woods *go together: hemlock shelves, fir splashboard, maple counter, oak cabinets*

Broom closet *fills space between refrigerator and fireplace. Mantel is 2-by-14 laminated maple*

Oak hood *perched above restaurant-type stove houses exhaust fan, blends with floor and cabinets*

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What looks like *a big wooden W makes maximum use of storage space in one kitchen corner. In another awkward spot, above, the drawer slides smoothly at an angle to clear the oven door*

Drawers match odd angles and corners

If you abandon conventional ideas abou how storage spaces should be shaped you can develop innovative solutions fo problem areas such as kitchen corners With the help of designer Donald Betker Carol and Ted Corbett of Lake Oswego Oregon, turned three trouble spots into convenient and easily accessible storage

Two odd-shaped drawers, shown a upper left, fit into kitchen corners where standard rectangular shapes would have been awkward. The corner drawer with the W shape holds more and is easier to open than two separate ones placed a right angles to each other. (You see i closed in the photograph below.) The second drawer opens at about a 60° angle to avoid colliding with the over door handle. It glides along a single middle track parallel to the drawer's angled left side.

Beneath the first drawer, a single V-shaped door (pictured below) fits the corner's right angle and gives broader access to the space than one or two narrow doors would have done. Inside, two 32-inch-diameter Lazy Susan shelves revolve around a center pipe. Raised edges make it easy to turn the shelves, and a wedge-shaped opening cut in both shelves accommodates the closed door. □

DOUG WILSON

Revolving shelves *make corner cupboard's full depth usable; angled door closes into the V shape. Recognize the drawer above?*

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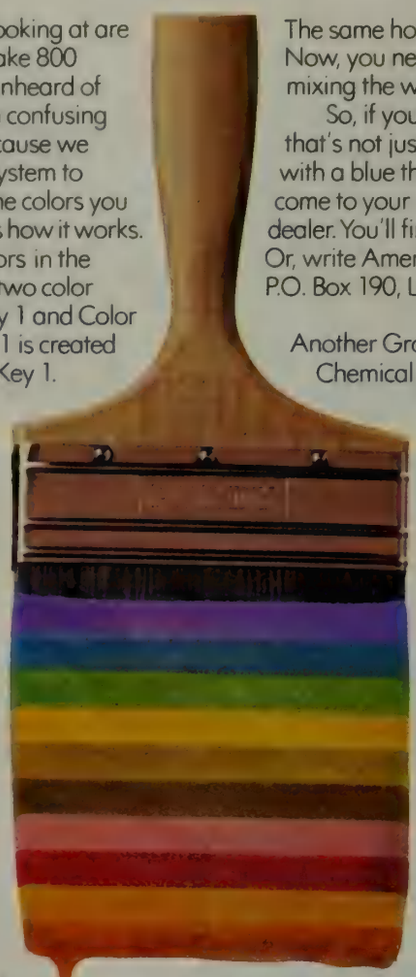

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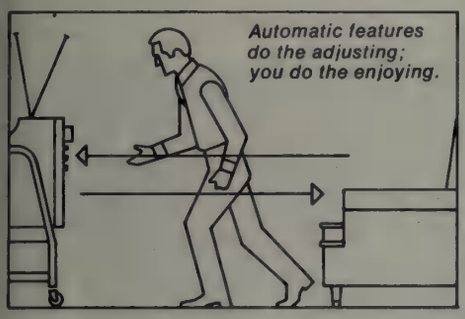

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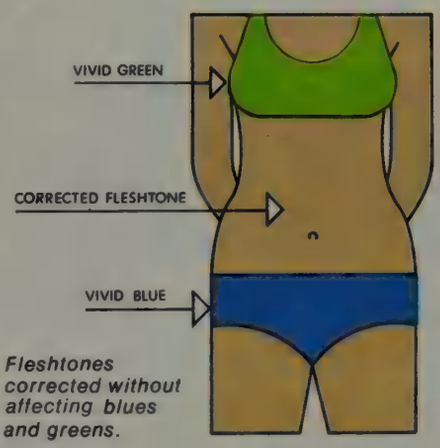

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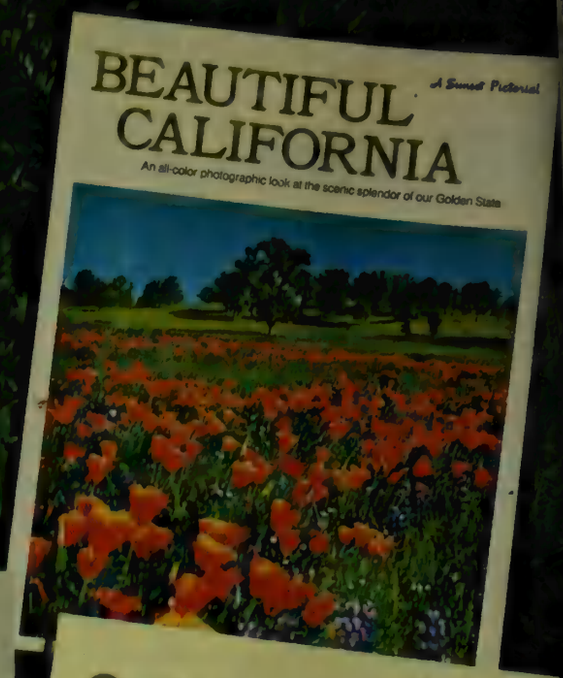

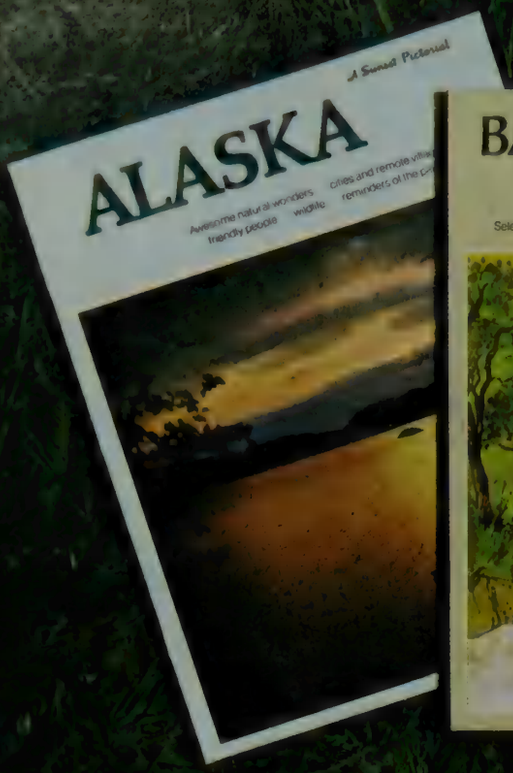

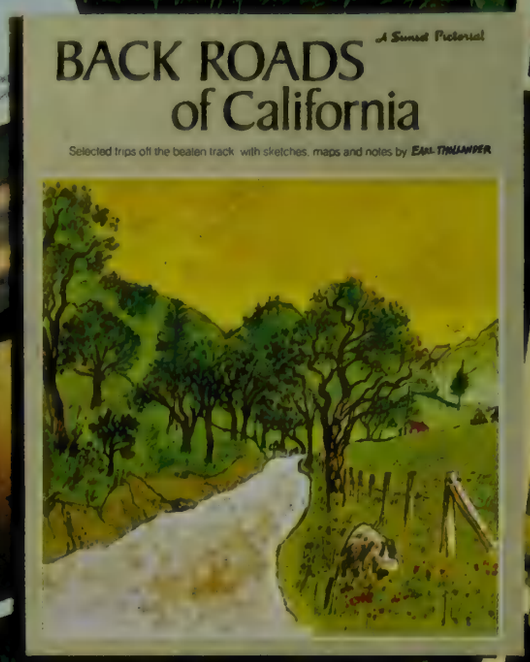

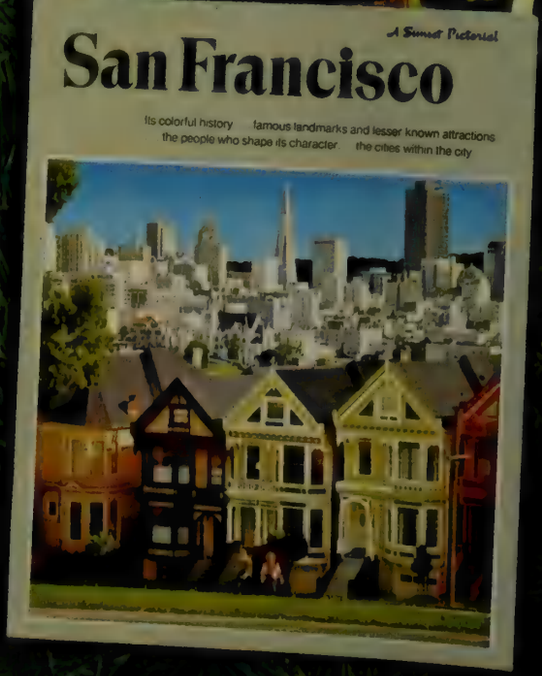

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DON NORMARK

Organized storage wall *of cupboards and drawers uses every bit of under-stair space*

Odds and ends under the stairs

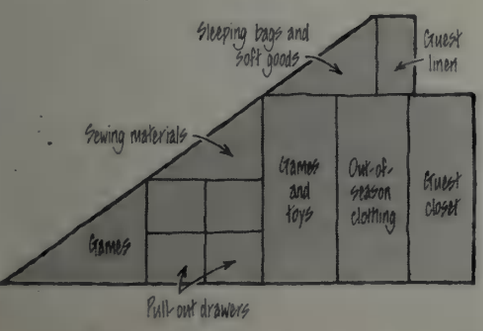
Here is one efficient way to make use of the awkward space under stairs and at the same time organize the miscellaneous accumulation of a family's play-and-work room.

The downstairs room in the photograph above belongs to Tom and Lois Hougan and their three children, of Ridgefield, Washington.

To begin the project, architect James Oliver of nearby Portland designed the series of 3-foot-deep cupboards, closets, and drawers to fit under the stairs. The unit was then built from ¾-inch particle board faced with Chinese orange plastic laminate, a happy note of color complementing the room's cedar walls.

Cupboard and closet doors have hidden hinges and are flush with the edge of the stairs. The brass drawer and door pulls measure 1 by 3¾ inches.

The block of four pull-out drawers was sized to hold suspension-type files and standard file folders. The Hougans use them to store family and household records, appliance manuals, catalogs, and the children's school papers. □



Inside this wedge *of doors and drawers there's room for files, clothing, sports equipment*

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Compared with other popular types of plant foods*

IMPORTANT FACTS for home vegetable growers.

University tests proved MIRACLE-GRO produced greater yields of tomatoes and other vegetables compared to best known "timed release" plant food as well as other popular types of fertilizers. Tests conducted in good soils and poor soils.

MIRACLE-GRO works where other types fail.

At leading University, in soils of very low fertility—plants fed the MIRACLE-GRO way produced good tomatoes while most of the plants fed with other types of fertilizers (including best known "Timed Release" type) *failed to survive!*

*All tested plant foods used according to label directions.

Why MIRACLE-GRO is called— "MIRACLE VEGETABLE FOOD"

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Yields TONS more!

Tomato farmers say 20 tons per acre is excellent. MIRACLE-GRO scored 30 tons per acre!

8 oz. $1.29

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NORMAN A. PLATE

Looking one way. *Overhead light is provided by clerestory windows and lights in soffits. Upstairs room has lookout window that opens to living room above hearth*

By designing a raised center section in this otherwise flat-roofed house, architect Stuart Resor of Encinitas, California, added extra height and light to the living room, dining room, and kitchen.

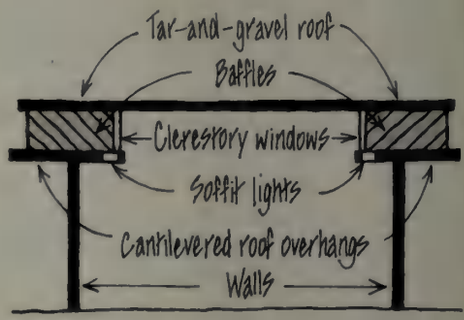
The 14 diagonally paneled baffles supporting the roof limit the amount of direct sunlight that enters the room as the sun swings in a southerly arch. (The fireplace is on the south wall.)

Note in the drawing below how the baffles sit above the cantilevered lower roof sections set on the outer walls. Inside, this two-level ceiling helps to define the traffic pattern which runs along one wall of the living room; it also provides the soffits for the white plastic light panels that ring the rooms.

Street-facing walls have high windows for privacy, but the sheltered back yard and deck can be reached through large sliding glass doors.

The photograph at left shows how the split-level roof continues over the dining room and kitchen. Walls and doors separate the kitchen from the other rooms, but since it has no ceiling of its own, it shares light from the twin banks of clerestory windows. □

Looking the other way. *Clerestory windows continue above adjacent dining room and walled but open-ceilinged kitchen*



There's a separate *baffle under the ends of each high ceiling beam*

They raised the roof ... gained an overhead ring of daylight

STUART RESOR

View *from the street shows exceptional degree of privacy*

A water goblet by Waterford® is not for water alone.

All entries become sole property of Waterford. *Photo: Pesin*

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Man lives not by water alone.

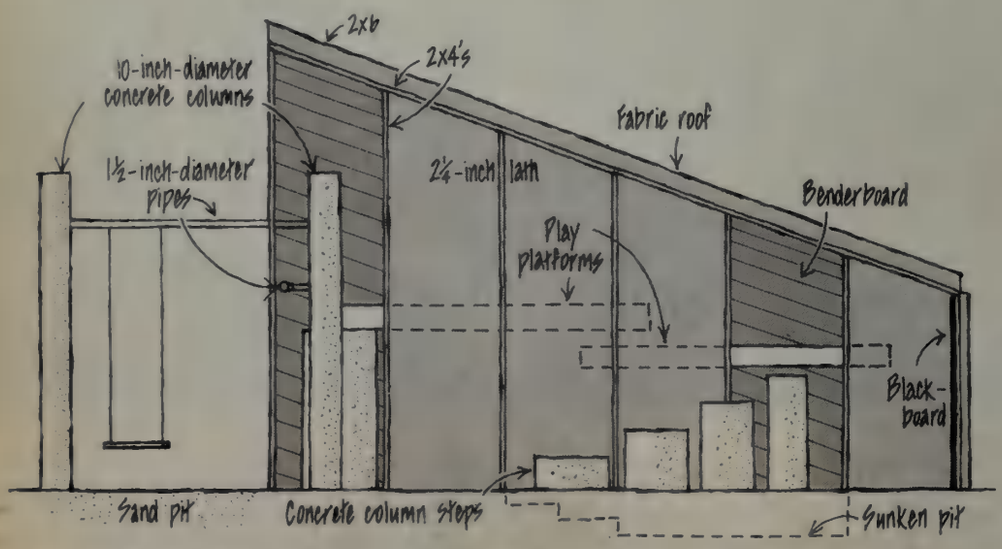
Open end *of play structure is 7 feet wide, 12 feet high—room for vigorous activity. Far end tapers to enclosed, cozy 4-by-6 area*

NORMAN A. PLATE

Indoor-outdoor carpeting *provides comfort. Lath walls give privacy but let breezes through*

Concrete posts *give access to upper level. Interior of solid end wall is faced with blackboard*

"Boojum bungalow" is a split-level playhouse equipped with swing, sand, carpet



Near wall *of lath (light shade) and far wall of benderboard are nailed to inside of 2-by-4 framework. Steel-reinforced concrete columns are sunk 2 feet into ground*

For reasons known only to its young owners, this playhouse is called the "boojum bungalow." Built by their father for Lara and Lisa Rotharmel of Phoenix, this combination of split-level playhouse, concrete columns, swing, sand pit, and chalk board inspire all sorts of games and activities.

Architect William P. Bruder designed the structure to fit along a side property line (a variance was needed for its 12-foot height). The wedge-shaped frame, which gets wider as well as taller at one end, has a framework of rough redwood 2 by 4's and 2 by 6's supported by concrete footings. One wall is sheathed with 6-inch redwood benderboard, the other with 2¼-inch lath. The low end is redwood plywood, backed inside with a blackboard. The 2-by-6 framework for the two carpeted upper floor sections is bolted to the exterior framework.

Overhead, a bright yellow nylon fabric roof keeps out direct sunlight and rain while letting through enough light for reading.

Mr. Rotharmel poured concrete into cardboard-tube forms to make the steps and climbing columns. The premixed concrete for the columns and building footings was brought to the site in a rented concrete trailer. □

Uncle George praised the turkey.
Aunt Alice liked the fresh flowers.
Little Jimmy asked for more apple pie.
And Jim's mother noticed the spotty glasses.
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Building codes, exasperating but necessary. Here is guidance

Building codes can be exasperating in their breadth and meticulousness. Anyone who has built or remodeled lately has probably wondered who makes the rules and what would happen if the whole system were simply bypassed. Others, new to the field, may wonder when a permit is needed and how to go about getting one.

Here you'll find general answers to these questions (every city and county is slightly different), and some personal experiences in dealing with the codes.

Rather than establishing their own standards, almost all government departments in the Western states have adopted the Uniform Building Code (a 728-page treatise first developed in 1927 by the International Conference of Building Officials), with amendments for local concerns such as unstable soil, flooding, or growth limitations. Your library almost certainly has a copy. This code is revised regularly, but the revisions are not necessarily adopted right away, so ask your local building department which year's version is in use.

When is a permit required?

Section 301 of the Uniform Building Code reads, "No person, firm, or corporation shall erect, construct, enlarge, alter, repair, move, improve, remove, convert, or demolish any building or structure in the city, or cause the same to be done, without first obtaining a separate building permit for each such building or structure from the Building Official." This includes greenhouses, patio covers, skylights, carports—every structural project you can think of.

It would also seem to cover almost every home remodeling project. In actual practice, there's a little more leeway.

When is a permit not required?

Western cities don't agree. In Portland you don't need a permit to build or remove a fence less than 3½ feet high; in Salt Lake City, 1½ feet high. Phoenix (which has its own code) allows emergency repairs when immediate action is needed "to protect life, health, or property," *if* a permit application follows. Hilo, Hawaii, requires no permit for temporary construction sheds (if the project for which they're needed has been approved), party tents, or roofing repairs. In Las Vegas a permit is unnecessary for work under $20; in San Mateo, California, under $1.

And most areas are unconcerned with cabinetry, refinishing, paneling, painting, and other things *not affecting the basic structure itself.*

From talks with building officials, we get the impression that such common do-it-yourself projects as replacing a window without changing its size or adding a divider between dining room and living room might be considered as not really requiring a permit, but building inspectors are loath to say so publicly. If you don't want to risk a penalty, be sure to ask the building department about any work you intend to do.

How do I get a permit?

If you're hiring a contractor, he should attend to this, although the responsibility is ultimately yours. If you're doing the work yourself, discuss your ideas with a building inspector and ask for an application. The building or planning department may have a basic information sheet showing such things as setback regulations, parking space requirements, and percentage of lot coverage allowed.

Then bring the completed application back to the office with detailed scale drawings and required fee (see right).

If you have a simple project and you catch the right official, you may get approval on the spot. But sometimes you'll have to wait a couple of weeks for approval to be granted—much longer for complex or nontypical applications, especially those involving soil studies.

Again, depending on the complexity of the project, you may have to take out an electrical and plumbing permit in addition to the building permit. A separate fee is usually charged for each.

What information will I need to provide?

You'll have to describe the work to be done and give the lot, block, tract, street address, or assessor's parcel number of the location; indicate use or occupancy; state the valuation; and submit two to four sets of detailed plans. In earthquake and slide areas you may also be required to file a geologist's report.

Most home owners don't have the knowledge or skills to draw up adequate plans showing property line setbacks, topographic features, easements, floor layout, electricity, plumbing, and so fort But before incurring the expense architectural or drafting help, go to var ous offices—planning, building, healt or whatever is required—to find out a of the factors that will affect the plan.

For uncomplicated changes, a detaile but not technically exact drawing ma suffice. Also, a copy of your house blu prints may be on file at city hall c county offices; you can sometimes pa to have a copy made.

How much will the permit cost?

There is a nonrefundable fee for pla checking and routine inspections, usuall payable when the application is sub mitted. (Sometimes the plan checkin fee is additional.) Generally, the permi fee is 1 percent or less of the dolla valuation of the work to be done, wit a minimum of $5, or, more rarely, base on square footage. (The valuation is fig ured from the cost of materials plu labor, irrespective of actual cost to th owner; essentially it is replacemen value.) Typical permit fees are $5 fo anything up to $500 in value, $20 for a $2,000 job, $112 for $25,000.

But fees and other paperwork costs can mount up. A *Sunset* editor embarking on a $4,000 add-a-room project found he had to pay almost $700 before he could start: review fee $50, geological review fee $50, building permit $28, plan check $14, home-owner bond $20, soil survey $190, geological deposit $100, and home-owner deposit $200. (The deposits were refundable.)

How long is the permit good?

Usually, work must start within 120 days of issue. (In Puyallup, Washington, it's 60 days; in Phoenix, 180.) Otherwise, an applicant must reapply and pay a new fee. Also, a project cannot be interrupted for 120 consecutive days without an extension or a new permit.

It is possible to make a change once a permit has been issued?

Yes, generally without additional cost. In some tight-enforcement areas you must submit revised plans for review and approval; in others, if the changes aren't extensive you can just discuss them with an inspector.

What happens if I do the work without a permit?

If you are caught, you may be charged double for a permit, and anything not conforming to code must be reworked, replaced, or removed. In some areas, such as Salt Lake County, the penalties can be stiff. You may be charged with a misdemeanor subject to a fine of up to $300 and/or six months in jail, and you may have to restore the site as it originally existed. For the full extent of the law to be exercised, the building official

"I searched, oh how I searched, for the first signs of spring. I found them just by changing the sheets."

I ran to the window first thing last Monday, hoping to find a little green outdoors. It was unrelentingly gray. I thought, "Alright, I will have some springtime in my bedroom *right now*." That afternoon I went out and bought lots of "Spring Valley" for my bed.

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ordinarily must feel that the violation was willful.

You can fight a tear-down order in court, but the law generally supports the code requirements. An inspector will likely consent to a delay to allow you to meet code requirements—unless your structure is very substandard or the work was done with flagrant disregard to legal procedures.

One home owner told us, "In my case, when substantial nonpermit work was discovered, the government agency most interested was the assessor. The building inspector gave me unlimited time to go through the proper procedures, but the assessor was on my doorstep within the week to revalue the structure."

How can I get a variance or appeal a decision?

Minor exceptions to code regulations may be granted when a literal interpretation seems impractical or illogical, as long as the variance wouldn't be harmful to neighbors, adjacent property, or public welfare. Submit a variance application to the building or planning official. You'll probably be asked to appear at a hearing where a ruling will be made.

Remember that variances are as much a part of the law as restrictions—a fact you may have to point out to the planning commission. You have a right to present your reasons for asking that the rules be waived.

Recently a builder told us, "I applied for a setback variance in unusual circumstances, since I was replacing a house that was built too close to the street before the setback requirement went into effect. I supported my request with a detailed plot plan, a written argument, and photographs to show that what I requested was not out of keeping with other structures in the neighborhood. I was granted the variance without having to go through a hearing."

A Board of Appeals normally exists to handle serious complaints. Anyone claiming to have been aggrieved by a permit decision may submit relevant information to this board. The final authority may lie with your city council or county board of supervisors.

Don't give up before you start

Some home owners are unnecessarily deterred from considering an improvement that might be at variance with code. If you have sound reasons for the proposed change and can state them clearly, your chances may be better than you think.

If you have had personal experience in getting a variance or have successfully appealed a permit refusal, we would like to know the details. Send them to Building Permit Editor, *Sunset Magazine*, Menlo Park, Calif. 94025. □

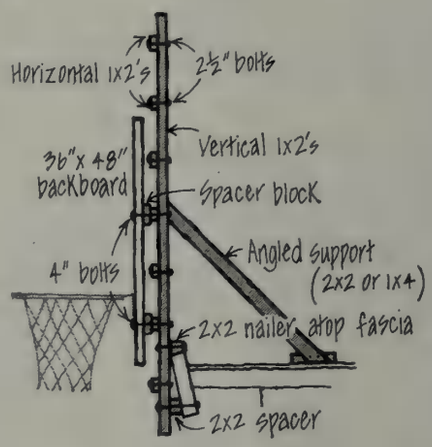
They say I'm a morning person. Maybe so. But I can't do a thing 'til I've had my Dial. Oh you great big, beautiful, golden bar. Wash away the sleep. Splash on the confidence. You can't buy a better deodorant soap. Or one that lasts longer.

Aren't you glad!

JERRY FREDRICK

At 8 feet 8 inches *off the ground, the hoop is a handy height for these youngsters. As they grow, it can be raised in stages to the official 10 feet*

A grid to backstop the backboard. It's movable



This backboard grid keeps badly aimed basketball shots from ending up on a flat roof, saving a lot of frustration and minimizing the wear of scurrying feet across the tar-and-gravel surface.

The grid is fixed, but the standard 4-foot-wide backboard, costing $35 with hoop, can be bolted on at any of four heights, placing the hoop from 8 feet to the regulation 10 feet off the ground.

To make a grid like this, you'll need about 80 feet of 1 by 2 (the owners used rough redwood), three dozen ¼ by 2½-inch carriage bolts, four ¼ by 4-inch carriage bolts, eight or so additional bolts (depending on your roof fascia), some nails, and scrap wood for nailers and spacers. Total cost: about $25.

The seven horizontal 1 by 2's measure 48, 72, 84, 96, 98, 99, and 97 inches long, top to bottom; the six verticals are 48, 56, 60, 60, 56, and 48 inches, side to side. Lay out the pieces in a grid pattern as in the picture, with horizontals 8 inches apart (on center) and verticals 13 inches apart. Drill bolt holes for 2½-inch bolts. Bolt together except where you plan to attach the backboard. Trim ends at a slant, as pictured.

Drill a pair of holes for 4-inch bolts on both sides of the backboard, 39 inches apart horizontally, 16 inches vertically. From scrap ¾-inch wood, cut four small spacer blocks to set the backboard out from the grid; drill center holes in the blocks. Paint all wood pieces.

The fascia's size, rigidity, and slant determine how the grid is attached to it. Here, a top nailer and an angled spacer keep the grid vertical. Stiffening it are two 1-by-4 supports angling up from the rooftop, where they are nailed to a short 2-by-6 block that's embedded in asphalt mastic and lag-screwed to the roof.

Bolt at least four of the grid verticals to the fascia, using new holes. Bolt backboard to grid, choosing the most suitable bolt holes for the cagers' heights. □

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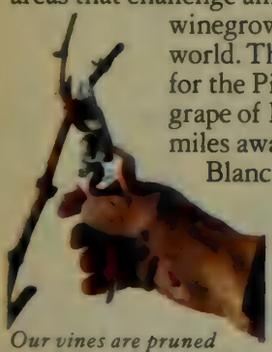
For here within this tiny space are areas that challenge almost every fine winegrowing region in the world. There is a cool zone for the Pinot Noir, noble grape of Burgundy. A few miles away the Chenin Blanc of the Loire can take its time basking in a warm sun. The Riesling of the Rhine has found a home. There is a spot for the Gamay Noir of Beaujolais. Each of these has gained superb new characteristics which make them taste uniquely of the Napa Valley.



Our vines are pruned carefully each spring to control the yield and increase the quality of the grapes.

The Christian Brothers are long-time Napa Valley vintners. Through our years of planting and harvesting, we have come to know each of its vineyard areas well. We share the belief of many enologists that there is no better home in California for the choice varietal grapes we use in our table wines.

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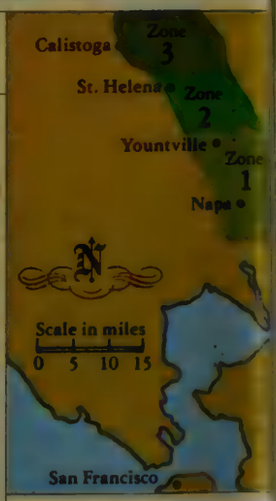
Pineau de la Loire · *Sauvignon Blanc* · *Riesling* · *Zinfandel* · *Gamay Noir*



The Napa Valley is divided into 3 general climate zones. Within each are dozens of micro-climates.

WHAT MADE THE NAPA VALLEY SPECIAL?

At the northern end of our valley, a docile Mount St. Helena now stands rather majestically watching her lands. Some millions of years ago, a volcanic eruption spilled out and left behind the gravelly loams and soils that the shy-bearing grape vines prefer.

A pattern of hills, gradually rising, creates the pockets for our weather which starts with cool breezes and summer fogs from the not too distant San Francisco Bay.

AND THERE IS AN AURA OF TIMELESSNESS.

In The Christian Brothers cellars, winemaking is an art that demands plenty of time, and we have found it in the quiet of the Napa Valley. Here, each wine can come to life in its own venerable oaken cask—for one must never be in a hurry to get the best from nature. And our fine wines—from the careful choice of the grapes to the sealing of the casks with beeswax—are made using the best of all things natural and good.

Each wine is tasted many times before it leaves our care.

To make our wines, we blend harvests and vineyards, bringing the best qualities of each together. For we find grapes from the various vineyard areas in the valley are quite individual in character. One may have richer varietal quality. Another more fragrant bouquet. And though we think our valley nearly perfect, nature rarely exactly duplicates a harvest. After careful cask aging and bottling we lay each bottle down in our cellars until we know it is ready for your table. It must have a fragrance and body, and complexity—the characteristics we demand. A few of my Special Selections, chosen as particular rarities, are laid down for extra years and receive a special neck label to set them apart.

Aging in oaken casks is just part of the story in our cellars.

Each of our wines is made with pride, and we invite you to enjoy in them all of the special qualities and taste found only in our wondrous and lovely Napa Valley.

This neck label on my special selection wine gives bottling and binning dates.

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The Alternative

Obtain HUD Property Report from developer and read it before signing anything. HUD neither approves the merits of the offering nor the value, if any, of the property.

JERRY FREDRICK

Slide-out toy shelf *keeps assortment of treasures handy for their young owner*

Many kitchens are playrooms

Parents may not think of the kitchen as the best playroom in the house, but it remains an all-time favorite with the small fry themselves. These two remodels didn't overlook that fact.

A floor-level cupboard with a slide-out shelf for toys was designed for the little girl who plays in the kitchen you see above. Not only can she get her toys out easily, she can likewise put them away. Moyer Associates Architects, Palo Alto, designed the unit.

Young contemporaries can dine together on their own level at the 17-inch-high, 42-inch-long counter shown below in the John E. Carrs' kitchen in Seattle. Two wooden brackets support it, one nailed to the cabinet at right, the other attached to the stove's wood facing. Two small chairs slide underneath. □

DON NORMARK

Child-height counter *is useful for lunch or a snack with a friend*

Sunday morning pancakes and sausage ■ Monday noon omelet ■ Tuesday evening steak and potatoes ■ Wednesday morning bacon, eggs, and biscuits ■ Thursday noon chow mein ■ Friday evening steamed fish and vegetables ■ Saturday night crepes and hot hors d'oeuvres ■

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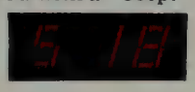

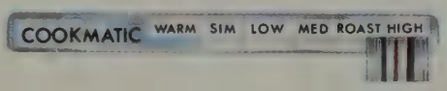

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DARROW M. WAT

Redwood sheathing *and triangular built-in step with hamper surround old tub*

Garden bath is a remodel

The only indication that this bathroom dates back to 1921 is its white hexagonal-tiled floor. Owners Robert and Ginger Good of Saratoga, California, remodeled it themselves, working from the outside in. They first built a deck outside around an existing pyracantha, then replaced an old double-hung window with sliding glass doors leading to the deck. A small jalousie window was set over the tub for ventilation.

Tongue-and-groove redwood sheathing, ⅜ inch thick and sealed with two coats of clear polyurethane, replaced the original plastic laminate around the tub. To create a vapor barrier, Mr. Good stapled a sheet of 8-mil polyethylene to the lath-and-plaster wall under the redwood; in the grooves of the wood and where it joins the porcelain tub, he ran a bead of silicone sealer. □

Hinged lid *of triangular hamper lifts back over tub; the step makes a handy seat*

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NORMAN A. PLATT

Rustic shake roof *over front porch breaks this house out of its original boxy look at right. Railroad ties are used as posts, also set in concrete turnaround area*

Two verandas and a new turnaround bring new life to a boxy bungalow

The new not only complements the old in this remodel—it dramatically enhances it, turning the once-boxy bungalow into a charming facsimile of an early California ranch house.

New porch *at back is a cool, shady place for sitting, dining. Arbor on garage uses matching materials*

But owners Steve and Ginny Ball of San Marino, California, gained more than good looks. The front and rear verandas they added provide shady, comfortable places for outdoor living, and they keep the house cooler in the summer. The new turnaround provides parking for the Balls and their guests and lets drivers reenter the busy street without having to back out.

At the front, the Balls brought an existing concrete porch out 4 feet and extended it across the house. The new shake roof of the veranda rests on massive railroad tie posts. Building inspectors at first balked at the use of ties as posts, but relented because the heavy timbers were far in excess of code dimensions, well anchored, and tied in with structural steel at bottom and top.

Oversize, rough-sawn cedar 2 by 8-inch beams visually balance the heavy scale of the posts.

To convert much of the front garden to the spacious turnaround, the Balls piled soil excavated from a 2-foot slope in this area behind retaining walls built of broken concrete chunks. They paved the leveled area in concrete squares handsomely set off by old railroad ties.

At the rear of the U-shaped house, they brought the dining room wall out 5 feet, even with the two ends of the U. Now a sliding door leads from the tiled dining room onto the tiled veranda. Steve Ball says he "still has the calluses" from laying all the handmade terra cotta pavers.

The Balls used asphalt shingles instead of shakes on the back roof because the pitch wasn't steep enough. (It's possible —with added expense—to use shakes on a low-pitched ranch-style roof if it is first hot-mopped with tar.)

An arbor added along one side of the garage echoes the style of the low, overhanging back veranda. To complete the facelift, all stucco walls were sandblasted and restuccoed. □

When Pearl puts on a spread for six she puts it in the laundry room, honey.

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Don't air dirty laundry in public, darlin'.

Tuck these 27″ rascals behind a door or under a counter and use that room for a family room, or whatever. (Both come in white, goldtone, coppertone or avocado, for when you do see them.)

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efore *Boxy house had a long, wide deck opening off living room and dining room*

DON NORMARK

fter *Bolted-together 2 by 6's, painted white to match the house, make an airy structure for festive vinyl canopy. Note how agreeably the row of shrubs softens and masks the original lines of the deck*

Festive canopy turns a big deck into an outdoor living room

his rather stark merchant-built house n Yarrow Point in Bellevue, Washing-on, had a generous deck near ground evel across the back. About 20 feet ide by 36 feet long, it could be reached rom both the living and dining rooms hrough sliding glass doors. But, if any-hing, the deck was too big, too open, nd quite lacking in style.

Our photographs show the happy solu-on of landscape architect Glen Hunt nd the owner, Mrs. Bliss Moore, Jr. low a permanent framework of 2 by 's painted white to match the house upports a roof-like 10 by 20-foot anopy of scarlet vinyl during spring, ummer, and fall.

The stretch of deck under the canopy truly becomes an outdoor living room—a shaded but bright and festive area. And putting up the canopy is a signal in the neighborhood that warm weather is in the offing; it is usually in place and the deck in use by mid-April.

A 36-foot-long piece of heavy vinyl, custom made by a tent and awning company, the canopy is not difficult to roll up and store. The troughlike shape it takes when stretched over the framework allows water to drain off quickly, a necessity in a climate where summer rain is not uncommon. (If water were permitted to pool on the vinyl, it could cause unsightly bulges.) Moreover, the frame tilts imperceptibly, to help divert the rain to the outer edge of the deck.

For maximum support, the eight vertical pairs of 2 by 6's that support the canopy extend right through the deck and are bolted to the floor joists.

When the owners put up the vinyl (the job takes two), they lead it over and under alternating horizontal members of the frame, attaching it only at the ends by folding it around thin strips of wood which are then nailed to each end 2 by 6 in two or three places.

How long will the vinyl last? Hunt estimates 8 to 10 years. Today it would probably cost about $300. Materials for the framework would cost under $200. □

Sears remarkable $599 Sofa

It's designed and constructed as carefully as many sofas that cost much more.

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Grafton Street

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Main Chance

Benchmade Sofas Only at Sears

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*Prices higher in Alaska and Hawaii
Prices may vary depending on the fabric you select.

DARROW M. WA

This work center *is actually the dining table—big enough to accommodate any family members or guests who want to join in. Here, t sturdy, durable finish withstands a team of noodle-makers. Gigi Green (left) uses a marble slab for mixing and rolling out the soft doug*

All the way with the open kitchen

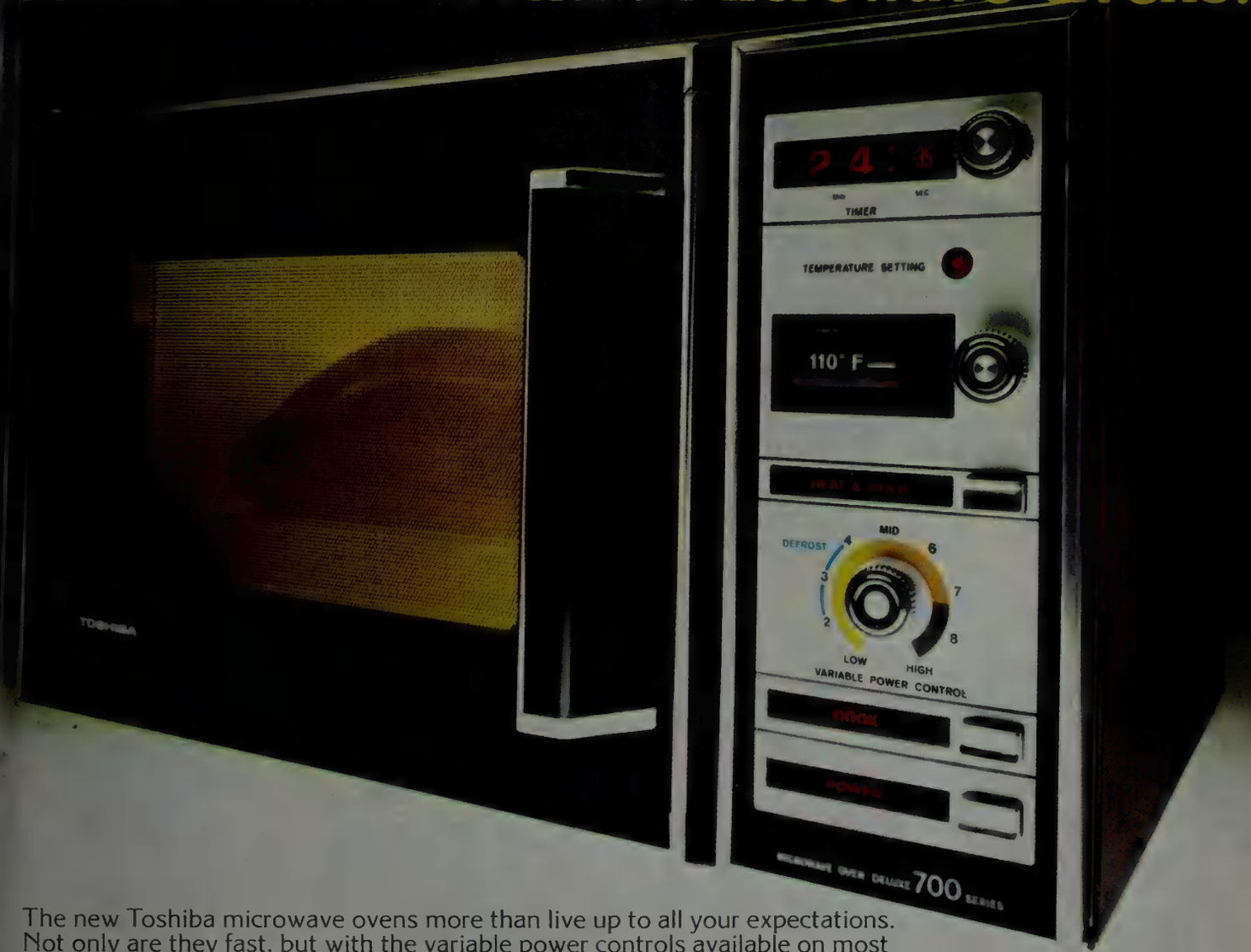
Gigi and Larry Green have space to cook and space to dine—in the same room. With the help of Berkeley architect Michael Siegel, they created a kitchen that doubles as dining room for family and company and opens directly into the living room, so guests are never cut off from the Greens while they are preparing meals.

Marinated chicken *cooks on broiler rack of heavy-duty stove. The stove is available from restaurant supply companies and some specialty cookware stores, as are the meat hooks, iron band, and chains used to suspend pots overhead*

We asked Gigi, the chief chef, whether there are any problems in first using the table for food preparation and then sitting down to it for dinner. She replied, "I did have to get over the idea that we are not eating in a formal dining room. Even though I keep most preparation between the sink and stove, somebody at the far end of the table always has to look at the clutter. I don't let this bother me, but I admit I have become fairly adept at cleaning up as I go along."

As Larry Green, a graphic designer who also likes to cook, explained: "I don't like to go to other homes for dinner where the wife gets up, heads off to the kitchen, is gone about 15 minutes, and

Features others call "deluxe" are standard on Toshiba Microwave Ovens.



The new Toshiba microwave ovens more than live up to all your expectations. Not only are they fast, but with the variable power controls available on most models you can cook virtually anything—from baking delicate cakes to fast reheating of foods. Just "touch and go"—you can't go wrong with controls like these at your fingertips.

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TOSHIBA
Better cooking for all the world

Raised open shelving *stretches entire length of tile counter*

suddenly appears with a salad and then exits. When we cook, everybody gets into the act. For the most part people accept this informality and like the whole excitement of the cooking-eating scene."

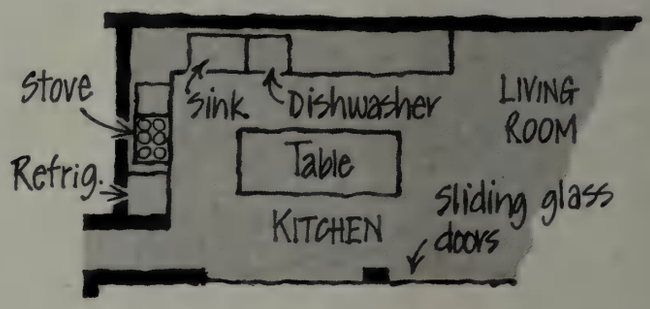
The kitchen's layout, lighting, and accessible equipment reflect the Greens' interest in their entire cooking environment. They chose enameled factory canopies for the hanging lights, and industrial sash for the large windows that bring natural light flooding into the room. The sink has industrial fittings, and the stove and hanging pot rack were both bought at a restaurant supply outlet.

Larry Green comments, "I thought it would be saving money, but industrial equipment usually costs more because it is designed to last forever."

Still, in the long run, the use of such sturdy, no-nonsense materials should pay off—and the Greens like their classic simplicity.

Also, they were able to realize a saving in other ways: The space-sharing design reduced building expenses, and the above-counter open shelving cost less than conventional cabinets.

The cook's big work table becomes the eating table in minutes



Sliding glass doors *open to the garden*

DARROW M. WA

One hour after *the big photograph on page 174 was taken, the table scene changed to a luncheon for guests. Dishes that were stored on the tile counter have moved to the dining table, as have five wine glasses from open shelves above the counter*

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Smart shoes for sensible women.

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Randall's
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Richfield
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NORMAN A. PLATE

Railroad-tie-and-brick *steps lead up to garage from house. White-plastered concrete block walls retain slope, create planting pockets*

Good-looking approach...white walls, planting, brick and rail tie steps

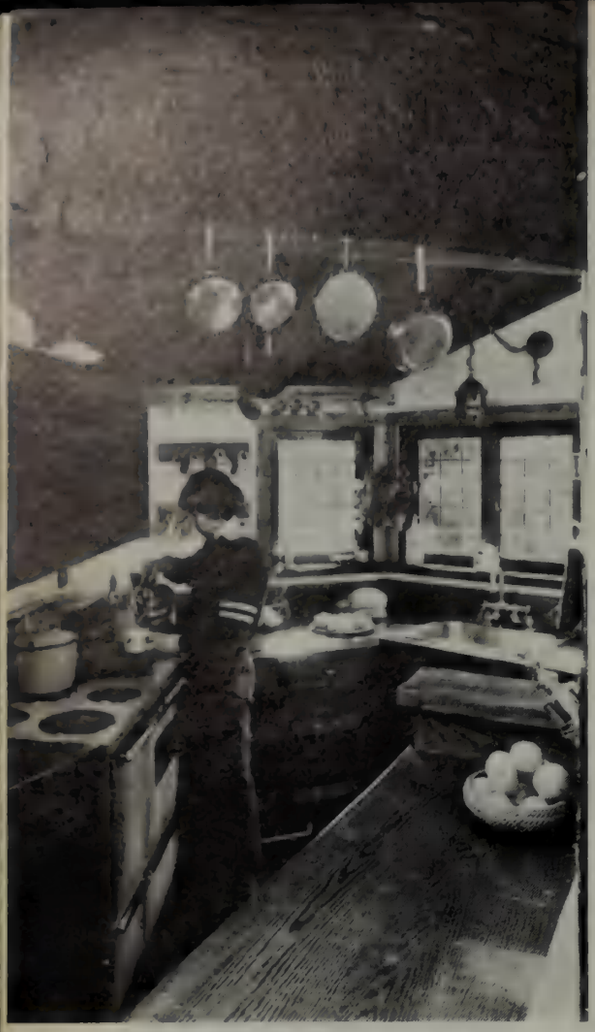
The smooth, fresh look of white retaining walls neatly contrasts with rustic railroad-tie-and-brick steps at the entrance to this Los Angeles home.

Architect Richard Martin chose concrete block covered with a ½-inch stucco coat for the walls. They visually link the garden and house and define the entire entry leading from the driveway down several steps to the front door. The stucco was hand-troweled for a casual look, then slightly smoothed with a large wallpaper brush.

For the stairway and walk, railroad-tie risers and brick treads were set in sand, with bricks in a running-bond pattern. Additional bricks were used for the walkway. Water can run off the steps to a drain in the graded walk.

White garden walls tend to get somewhat dirty over the years. You can freshen them up by making a whitewash out of the original stucco mixture. Eventually you may have to paint. □

Low, angular *stucco house sets the theme. Matching retaining walls guide you down three sets of steps from parking to entryway*



Cooking and serving space *(left) is separated from the dining area (right) by an angled wood counter. Railroad-tie beam and used-brick fireplace make new kitchen seem old, comfortabl*

GLENN CHRISTIANSE

The inspiration for this rustic kitchen? An English country stable

Each piece of wood in this kitchen, each piece of hardware, was chosen then treated to blend with the overall effect of a warm, rustic, livable room. Craftspeople designed and built it, workmen committed to time-honored ways.

It's not for everyone—but if you love the old and traditional, consider its ideas.

Owner-designer Janey Knight of Mill Valley went to England to research the kind of structure she wanted to build. "I wanted the room to last, to stand alone, to be beautiful because of its exposed wood, natural stone, and variety of textures. I would like never to feel an obligation to decorate."

A country stable was the inspiration here. The owner, along with Roger Ahlenius and Jeremy Cave, used several techniques to make new materials blend with the old ones they had collected through the years. They adzed the corners and ends of new redwood, then burned each piece with a torch to darken the wood and bring out its grain. Charred timbers were steel-brushed and sealed with a flat polyurethane finish.

(Now, these builders have found they can achieve a similar effect by brushing on a solution of lime and water that eats into the wood, forming a powdery white layer. When this coating is brushed off, the wood looks old and grayish. It can then be oiled, stained, or left alone.)

The rough plaster walls imbedded with straw borrow a technique from Mexico. Over fire-retarding plasterboard, the workers troweled a coarse mixture of plaster and straw. The resulting surface (lower right photograph) contributes to the country effect.

Acid-dipping mellowed the new handmade hardware and removed nickel-plating from the old faucet. A two-week salt-water soak turned a shiny iron chandelier into a rusty, weathered-looking one.

The electric range and stainless steel sink are unashamedly 20th century, yet they seem not at all out of place. □

Shiny brass *faucet, above, was salvaged from an old house. Wood handles replaced broken porcelain ones. Below, straw-flecked plaster, driftwood window trim, and leaded glass add textural interest*

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Sunken inner court *is main outdoor living area. West-facing windows of guest unit at left are shaded by wood-slat awning*

The main living area is out of doors yet the house is an exercise in privacy

Here's a house designed for privacy—privacy from the street and neighbors, and for family members within as well.

It's essentially a three-part house joined by covered passageways. One part is the sleeping tower, a two-story structure set well back on the lot. Another is the main living unit—living room, kitchen, and dining area. The third part, next to the entry, is for guests and allows them to come and go freely. Only one window, in the guest bath, faces the street, but it's screened by a trellis.

Though built on a 60 by 125-foot lot, the house is well suited for a smaller site where privacy would be even more desirable. You could compress the plan without giving up the separate units. In a vacation house such a design woul let two or even three families share th overall space without getting in eac other's way. In a noisy area, the pla affords a natural buffer to the street Another plus—only the rooms bein used need to be heated or cooled.

Architect-owner is Henry E. Reese o Johnson-Reese & Associates, Honolulu.

GLENN CHRISTIANSEN

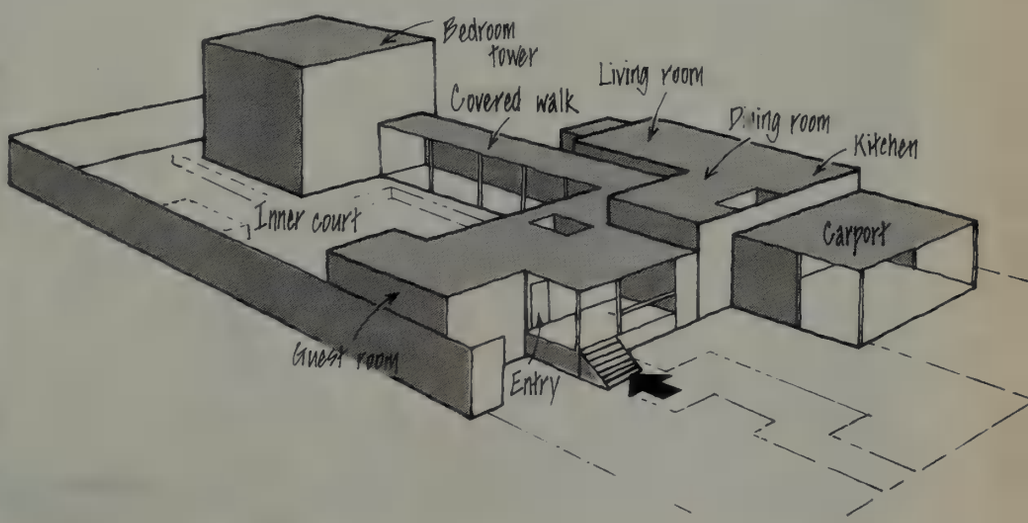
She's walking along *the covered passageway connecting two-story sleeping unit to the living-cooking-eating areas. Fixed louvered panels on far side baffle strong winds but let breezes waft through*

One end *of dining room is skylit tropical garden; other end opens to inner court*

Another garden *forms a leafy divider between entry and dining area*

It's really a house *for Hawaii or the Southwest. In cooler climates you'd want to add sliding glass doors to enclose passageways and room openings. Note the roof apertures that let light bathe inside gardens shown in photographs*

View from streetside *shows the privacy attained when main rooms face an inner court*



Molding helps conceal *cabinet door (left), matches wall trim. Inside, there's ample space for china and glass storage*

NORMAN A. PI

Cabinet-partition *blends into walls, separates living and dining rooms*

Partition wall has storage inside

Creating two rooms—for dining and living—out of a large living room was also a chance to get extra storage. Instead of dividing the two rooms by a wall and door, there's now a large, light-sharing opening, flanked by two deep partitions built as dining-room cabine

The cabinet-partitions, made from inch plywood, are each 24 inches wi a foot deep, and an inch shorter th room height so they could easily raised into place. Flush-mounted do are on continuous hinges; molding c ers the door cracks and matches deco tive molding on the walls. Shelves mounted on adjustable hardware.

Cabinets were nailed to the side w studs; the inch clearance at the top w filled with spackling compound befo painting, and the bottom was trimm with baseboard.

Design by Judd Wirz and Andrew V of San Francisco.

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Hanging indoor garden 5 feet tall . . . built with grapestakes

KAREN E. CONDO

Materials *for grapestake plant stand cost about $8. It can be built in just a few hours*

As fencing material, grapestakes are valued for their light weight and good looks; they can also be brought indoors and made into this sturdy rustic-looking plant stand.

To build it, you'll need three square pieces of rough redwood 1 by 12, eight 5-foot-long split redwood grapestakes (the straightest ones you can find), 1¼-inch (3d) finishing nails, and some waterproof glue.

Glue together two of the 1 by 12's to form the bottom shelf for the stand. Use clamps, weights, or finishing nails to help them adhere (if you use clamps, insert a piece of scrap wood to keep the 1 by 12's unmarked); allow the glue to dry.

Measure the thickness of the bottom and top shelves. Pick the four thickest and straightest grapestakes to use as corners (tapered ends pointing up). In each, cut one notch 10 inches from the top as shown below and the other, wider notch 2 inches from the bottom. Insert each shelf into the proper notches to check for fit; place grapestakes at the sides and flush with edges of shelves. Glue and nail grapestakes to shelves, countersinking the nails.

Notch remaining four grapestakes the same way; saw 1 inch off the bottom of each. Glue and nail one on each side of the stand and two in the back, all evenly spaced. Countersink the nails.

If you want, screw a small hook under the top shelf for hanging a plant or a growth light. □

DAVID FENWICK

To make notches *with a handsaw, use a miter box and cut thin grooves halfway into each grapestake. Then chisel out the slivers of wood and sand rough edges*

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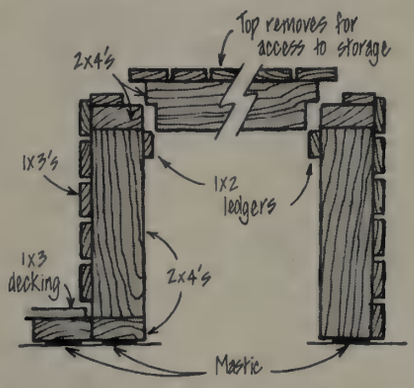
GLENN CHRISTIANSEN

Round table *flanked by built-in benches makes handy eating area at end of deck. Bench cross section (below) shows how top lifts off to use space inside for storage; this feature is optional*

Now this space works better and looks bigger

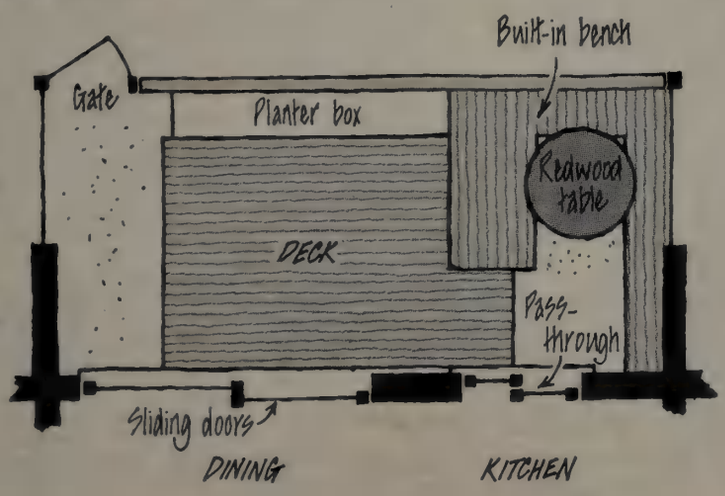


ding a floor-level deck and built-in ting made this small outdoor living ıce look bigger and work better. Be- e, a step led from the house down to a concrete slab. Now the transition smoother, the outdoor space much ore useful.

ıe new deck, sitting right on the exist- g concrete slab, is made of 1 by 3's er a frame of rough 2 by 4's. As the etch below shows, there is no deck thin the eating area; this allows more leg room under the table. A bamboo awning above it provides some shade.

Built-in bench seating takes up less space than conventional furniture and is designed for both eating and lounging. The shorter, wider part of the bench—which is also used for general patio sitting—has a removable top so weatherproof pillows and folding furniture can be stored inside.

Architect-owner is Randall J. Fonce of Honolulu. □



Overall space *is only 10 feet deep, 22 feet wide. Eating corner is directly opposite the kitchen window passthrough*

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Water-saving book

A little-known new book may be the best information source of all on what we can do about the West's ongoing water shortage. *Residential Water Conservation,* by UCLA architecture professor Murray Milne, devotes 433 pages to the basics of our water technology, some fascinating history, an evaluation of water-saving products and procedures, and reports on more advanced waste-disposal alternatives that may be forthcoming.

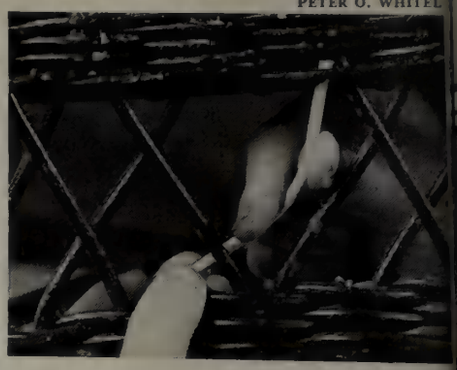
Not in bookstores, it can be ordered prepaid ($7.50) from the Water Resources Center, 475 Kerr Hall, University of California, Davis 95616.

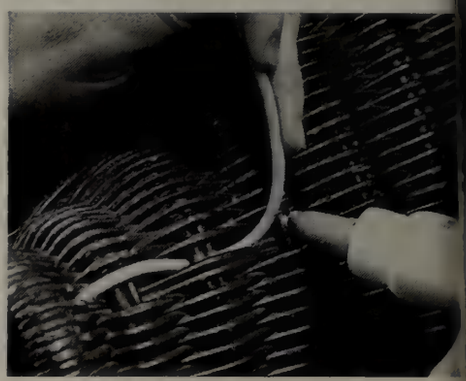
Consumer catalog address

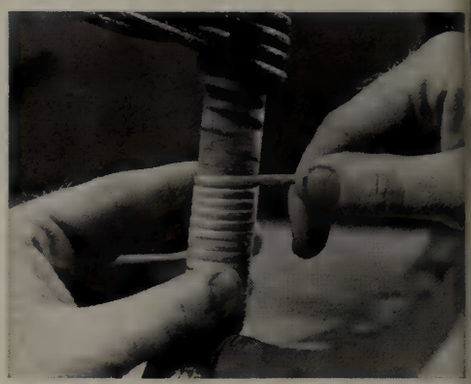
The Compleat California Consumer Catalogue mentioned in March's Changing Western Home is sold by the state Publications Section, Box 1015, North Highlands, Calif. 95660.

Help for worn wicker, three simple repair jobs

PETER O. WHITEL







Wicker furniture is durable, but after years of use it may need some repairs. Small holes can quickly become big so make repairs right away.

To learn how to patch up your wicker, look for a new illustrated book entitled *Collecting and Restoring Wicker Furniture,* by Richard Saunders (Crown Publishers, Inc., New York, 1976; $6.95). The book points out three typical repairs:

Replacing a broken reed spoke (top photograph) involves snipping off the old vertical spoke behind the third or fourth row of cross-weaves above and below the break. Then, after soaking the new reed in warm water for 15 minutes, weave it in place, trimming it to fit. It should spring into place, so no glue is necessary.

Reweaving a broken horizontal reed (middle photograph) is like repairing a spoke, except you need to clamp and glue the reed in place.

Rewinding cane (bottom photograph) is done by tacking down one end of a strip of flat cane, then wrapping it tightly and evenly. Where the wrapping ends, use another small brad to secure it; always nail on the back of the legs so brads will be less visible.

The only equipment needed for most jobs is a hammer, pair of cutters, some small brads, white glue, and a hank of the proper size reed ($3 to $5). For suppliers, check craft shops or look in the yellow pages under Caning, Rattan, Reed, or Wicker.

A boom in miniboards

Last April, we dealt with a new product called Cedar Strip. This year, these 1/9-inch-thick glue-to-the-wall miniboards have some competition at many lumberyards:

Overalls, made by Simpson Building Supply Co., are 3/16 by 3½ to 96-inch (or shorter) redwood boards with a smooth side and a rough side, or two rough sides. Fourteen 96-inch pieces, enough to cover 32 square feet, cost about $20.

Real wood paneling (not shown) are ⅜ or ⅝-inch-thick tongue-and-groove boards also milled by Simpson. They come in 4 and 6-inch widths, in alder, oak, madrone, juniper, fir, pine, or redwood. Redwood (⅜ by 4-inch) sells for about $1 per square foot.

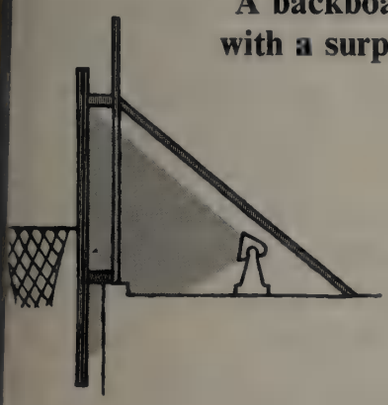
Slatcraft Incense Cedar Slats are sold in 304-piece cases, enough to cover about 40 square feet. Slats are available in either heartwood "reds" ($17) or sapwood "whites" $15). Each slat measures 3/16 by 2¾ by 7¼ inches. This is a new product; for help in finding it, write to Slatcraft, 435 Toyama Dr., Sunnyvale, Calif. 94086.

Redwood Strip is a new cousin to Pope and Talbot's Cedar Strip. Not yet widely distributed, these 1/9-inch-thick boards are sold in the same random-length packages as the cedar. Each contains about 32 square feet for $16 (available sanded or rough).

Century Cedar, manufactured by Gregory Industries of Vancouver, B.C., are 5/16-inch-thick by 3 7/16-inch-wide tongue-and-groove cedar boards that have a smooth side and a rough side. At least half of each 8-foot bundle (23 square feet) is in 8-foot lengths, the rest in shorter pieces. Cost is about $24 per bundle.

T HUPY

A backboard with a surprise

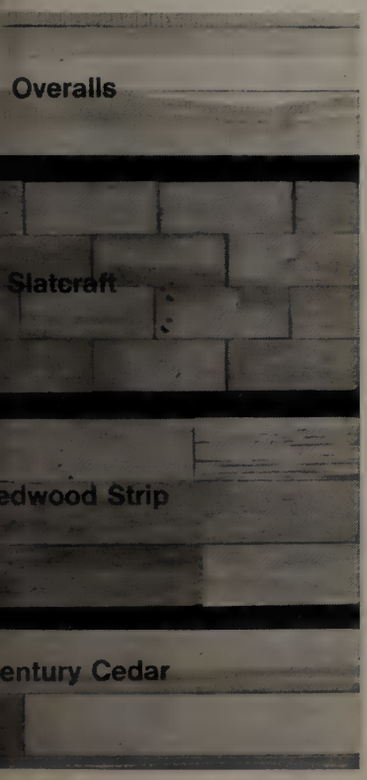


Garage-mounted basketball backboards are a lot of fun, but they can be unsightly. This backboard, designed by Seattle architect David Wright of the Bumgardner Partnership, serves as a colorful piece of outdoor art and has a second practical purpose—at night it lights the parking area.

The backboard is a 58-inch disk made from two layers of ¾-inch plywood. Eight ½-inch-wide slits are cut into the disk. A 2 by 4's width behind is a 4-foot-high, 7-foot-wide arc of ¾-inch plywood with an 18-inch-diameter hole cut in the center.

The front side of the disk is painted with a bright orange and yellow sunburst on a white background; the back is painted white. Rainbow strips decorate the arc. The painting was done with sign-painter's enamels over a simple penciled design.

After dark a floodlight mounted 2 feet back on the roof puts on quite a show: Some of the light goes through the eight slits to light the paved area, and some bounces off the white disk to light the brilliant rainbow.



An oil-lamp chandelier . . . no wiring necessary

There's something very romantic about an oil wick burning inside a glass chimney—a bit of nostalgia that's safer and more convenient if the lamp or lamps are used where they can't be knocked over.

With the help of Portland architect James Oliver, Peter Jensch designed and built this simple but elegant chandelier to hold three hand-thrown oil lamps. Three small metal bands are welded to a larger central band bolted to three sculptured Douglas fir legs. The legs are mounted to a slotted Douglas fir disk screwed to the ceiling.

DON NORMARK

Now that you know everything there is to know about outdoor cooking ...here are a few things you ought to know about outdoor cooking.

First, let's agree on some of the basics, OK? No use getting off on the wrong foot among friends. For example, we can agree that there's no cooking that's as much fun, as interesting, as versatile, as outdoor cooking. Nor smells as good.

The smallest backyard or patio or balcony is a more enjoyable place to eat than the grandest dining hall. Except maybe if the weather acts up.

A serviceable barbeque grill is more important to the well-being of the American household than a good, firm innerspring mattress.

And now, some areas of controversy. Friends can discuss these things rationally. For example, you are firmly convinced that the smokey barbeque flavor that you achieve with your steaks and chops and so on comes only from the charcoal you use. Lots of people think that, and if it makes 'em happy—OK.

But the truth is, that wonderful flavor, that teasing aroma, is the result of the meat juices dripping on the glowing embers and making smoke. Meat smoke

That's what makes the barbeque flavor—meat smoke.

You could get the same effect from dripping meat juice on a hot soldering iron. But somewhat more conveniently from a Charmglow Gas Barbeque.

A frank admission. A Charm-Rok® briquet has no flavor either. Charm-Rok briquets are our own version of glowing

nbers. They're all the same size and thickness d density so when you turn on the gas flame u get uniform heat all across your grill. Fast.

it just like charcoal they have no taste natever, no odor, no nothing... until a driblet hamburger juice hits them and that gorgeous oma starts sneaking across the yard to the eighbor's hammock...

o own a Charmglow® Barbeque ou have to give up a few things.

ever again will you discover, just before the uests arrive, that nobody remembered to pick p a bag of charcoal.

ever again will you be able to dump half a ushel of ashes and half burned briquets on a indy day.

lever again will you douse your charcoal vith a lighter fluid that could make an therwise memorable steak taste faintly f lawnmower exhaust.

'ou won't have that half-hour or more of edious waiting for your fire to "ash over" so you an start cooking. You won't even get charcoal lust under your fingernails.

f you're prepared for these kinds of sacrifice, you nay be interested in our proposition. Read on.

Our proposition: Buy a Charmglow Barbeque.

A Charmglow Barbeque is the best you're going o get. Its housing is a strong, thick, heavy aluminum casting. Holds heat, laughs at weather, can't rust—ever.

It has a deep firepit, a high cover. That's so you can rotissere huge turkeys if you wish.

The gas burner is stainless steel. It resists the rust and corrosion that sooner or later plugs up cast iron burners. Put it in the dishwasher occasionally to clean it up.

And your Charmglow Barbeque doesn't need a match. For a little extra, we'll put our new electronic igniter on it if you like.

The copper tubing that feeds the gas is lined with tin to stop corrosion. Almost nobody else in the gas grill business bothers to do that without charging you extra.

We put a gas flow control on our barbeque. Now you'd think every gas grill would have a regulator, wouldn't you? Not so. The Charmglow Barbeque is one of very few.

The in-ground metal post your Charmglow Barbeque sits on is bonderized against rust and coated with heat resistant, weather resistant, electrostatically applied paint.

There's a good chance that the very Charmglow Barbeque you buy right after you finish reading this ad will be handed down in your family just like the grand piano and that charming little walnut cradle Grampa Dwight made in 1906. That's how tough we build them.

No more whether. Now it's which.

It's way too late for you to be sitting there wondering *whether* to buy a Charmglow Barbeque. That's all decided.

All you have to do now is make up your mind *which* Charmglow Barbeque model you'd like best. You can have natural gas, or LP gas or electric. Permanently installed or movable. Wheeled cart or pedestal base. Any color as long as it's black. Single burner or double burner. One fire box or twin. Even a neat, fold-up model about the size of an attache case.
What a lunchbox!

A cruel test of your sale resistance. $54 for $20.00.

If you order the Charmglow Barbeque of your choice before the first day of June, you will get our electronic igniter and our new hardcover 150 page Outdoor Cookbook and a vinyl cover to protect your barbeque from dust and weather. These three together, go for $54. They'll be yours for only $20.00.

Well, enough of this tantalizing. There's a hardware or department store, a home center or a garden shop or an appliance store near you where you can see Charmglow Barbeques in person, read up on them if you like, but most important, you can buy one and become a legend in your own neighborhood.

Compare Charmglow Barbeques with anything that cooks outdoors... or in

Charmglow®

Gas and Electric Barbeques

Sunset's Kitchen Cabinet®

Cooks frequently look for short cuts to good-tasting dishes. This month we suggest two such step-savers: seasoning a bottled salad dressing to use as a marinade for chicken; using canned soup and frozen spinach for a speedy but elegant soufflé.

Other recipes show off spring's produce. There's a whole-meal sl salad garnished with chilled as gus spears. For dessert we su light, airy cupcakes to eat pla

Alternate tropical fruit and chicken breast on skewers for broiler dinner

Curried Chicken and Fruit Kebabs

Chicken and fruit, glazed with honey, make an impressive dinner entrée.

- 4 whole chicken breasts (each about ¾ lb.), split, skinned, and boned
- ¾ cup bottled oil and vinegar salad dressing
- 2 teaspoons curry powder
- 2 to 3 medium-sized bananas
- 1 can (about [illegible] oz.) sliced pineapple, drained
- 1 large papaya or 8 preserved kumquats
- ⅓ cup honey
- 2 limes, cut in wedges

Cut each half-breast into 4 equal pieces, making 32. Mix salad dressing and curry powder. Stir in chicken until all pieces are coated. C marinate at least 2 hours or overn

Meanwhile, peel bananas and c 2-inch lengths; coat each in marin Cut pineapple slices in half. halve, and seed papaya; cut 1-inch cubes. To assemble, th chicken, pineapple, banana, and paya alternately on long skewers. honey into remaining marinade brush generously over kebabs.

Broil, 3 to 4 inches from heat, bas and turning once, until chicken i longer pink inside, about 15 minu Serve with lime wedges. Makes 6 servings.—*K. L., Arcadia, Calif.*

A hard-cooked egg thickens the lively dressing that accompanies this salad

Shrimp and Avocado Salad

Creamy cool avocado halves, topped with shrimp and garnished with fresh asparagus spears, make an attractive spring luncheon salad. A tangy, creamy dressing complements it.

- 1 small head butter lettuce
- 3 medium-sized avocados
- 1 to 1½ pounds cold cooked small or medium-sized shrimp, shelled and deveined, if needed
- 1 pound cold cooked asparagus spears
- 1 small can (about [illegible] oz.) pickled beets, drained
- 1 to 1½ dozen cherry tomatoes
- Tangy dressing (recipe follows)

Arrange lettuce leaves on 6 individual salad plates or on 1 large tray.

Cut avocados in half, remove and pit; slice if desired. Arrange plates or tray. Distribute shrimp o avocado; garnish with asparag beets, tomatoes. Pass dressing spoon over individual servings. Ma 6 servings.—*J. G., Burlingame, Ca*

Tangy dressing. In a blender, co bine ½ cup salad oil, ¼ cup tarrag vinegar, 2 tablespoons Dijon musta 2 teaspoons prepared horseradish tablespoon catsup, ½ teaspoon sa ¼ teaspoon cayenne, and 1 ha cooked egg (cut up); whirl ur smooth. Stir in ¼ cup *each* fine chopped celery and green onion.

For a quick supper top spicy meat and chile mixture with Yorkshire pudding

Yorkshire Relleno

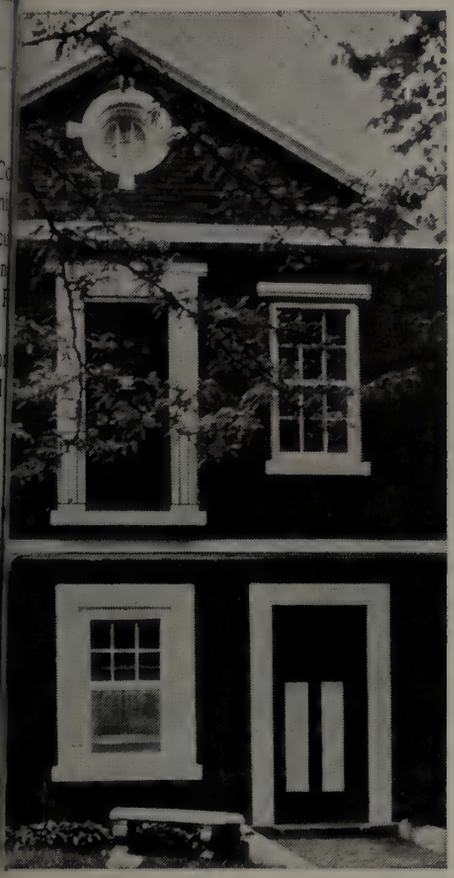
You can vary the heat level of this dish by the amount of chiles you use.

- 1 pound lean ground beef or lamb
- Butter or margarine
- 1 small onion, chopped
- 1 clove garlic, minced or pressed
- 2 teaspoons chile powder
- 1 teaspoon *each* ground cumin and oregano leaves
- 1 can (4 or 7 oz.) whole California green chiles, drained and chopped
- Salt and pepper
- Yorkshire mixture (recipe follows)

Place an 8 or 9-inch square baking pan in the oven while it preheats to 400°. Meanwhile, in a wide frying pan crumble and brown meat over medium heat. Skim and measure e cess fat from meat and add enou butter to make ¼ cup. Return to pa add onion, garlic, chile powde cumin, oregano, and chiles. Coo stirring, until onion is soft. Add sa and pepper to taste. Spread mixtu evenly over the bottom of the h baking pan. Make the Yorkshire mi ture; pour over meat and bake, ur covered, in the 400° oven until puff and well browned, 25 to 30 minute Makes 4 servings.—*R. M., Seattle.*

Yorkshire mixture. Beat together eggs, 1 cup all-purpose flour (un sifted), 1 cup milk, ½ teaspoon salt.

Do you recognize this American landmark?



Probably not. No famous person was born in this house. No treaties were signed here.

This house is simply a charming example of period architecture that is perfectly suited to today.

It doesn't take a mansion to be a landmark. There are thousands of fine buildings like this one all across the country. They're part of our heritage too, just like Monticello and Mount Vernon.

These buildings can be revitalized by adapting them to modern uses.

Let's hold on to these pieces of our history while we still can. Support historic preservation in your community.

For more information write Membership Department, Office of Public Affairs, The National Trust for Historic Preservation, 740 Jackson Place, NW, Washington, DC 20006.

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Nature Boy: our honeymaker

...the only thing we add, is the can.

(VALLEY HONEY ASSOCIATION, STOCKTON, CALIFORNIA)

The surprise in these soups is the custard in the bottom

Dig deep into these two Oriental-style soups to discover their surprise. At the bottom of the bowl your spoon will find a layer of delicate custard. Smooth soup, velvety custard, and succulent meat or fruit come together in each bite.

The savory chicken and spinach soup makes a light lunch or an elegant first course. The lightly sweet, cold, orange version is a refreshing and pretty dessert.

Chicken Custard Soup

Soak 4 medium-sized Oriental dried mushrooms (sold in Oriental food sections or markets) in warm water until soft, about 20 minutes. Discard tough stems and cut mushrooms in ¼-inch strips. (Or use 4 medium-sized fresh mushrooms, sliced.) Distribute mushrooms in 4 bowls (each about 1½ to 2-cup capacity). Set bowls in a deep baking pan.

In a saucepan, combine 1½ cups water and 2 chicken bouillon cubes. Heat to simmering. Beat together 2 eggs. Gradually stir hot broth into eggs. Pour equal amounts of the egg mixture into the 4 bowls. Place baking pan with bowls in a 350° oven; pour boiling water into pan as high as the level of the custard inside. Bake until custard jiggles only slightly when gently shaken, about 18 to 20 minutes. Remove from oven; discard the water.

Meanwhile, skin and bone 1 chicken breast (about 12 oz.). Cut in ¼-inch-wide strips. Also cut 3 cups spinach leaves in ¼-inch-wide strips. Combine in a saucepan 2 cups water, 2 chicken bouillon cubes, ⅛ teaspoon ground ginger, a dash of white pepper, and ¾ teaspoon soy sauce. Also stir together 1 tablespoon *each* cornstarch and water.

When custard is done, bring broth mixture to boiling and add chicken. Cook, stirring, until it loses its pinkness, about 2 to 3 minutes. Stir in cornstarch mixture and spinach. Cook, stirring, until thickened, about 1 minute. To serve, ladle hot soup over custard in each bowl. Makes 4 servings—*K. J., San Francisco.*

Orange Custard Soup

Set 4 bowls (each about 1½ to 2-cup capacity) in a deep baking pan.

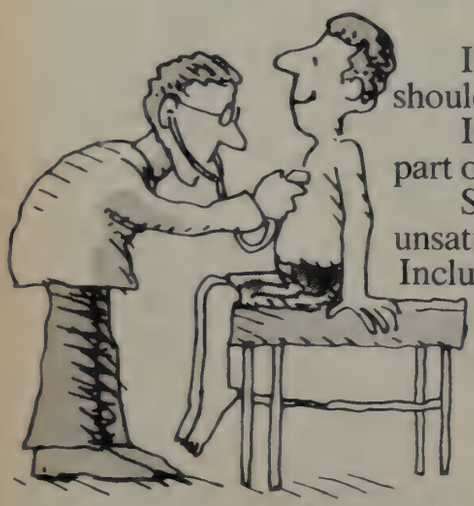
Beat together 2 eggs, 2 tablespoons sugar, ⅛ teaspoon salt, and ¼ teaspoon almond flavoring. Gradually beat in 1½ cups scalded milk. Pour equal amounts of the egg mixture into the 4 bowls. Set baking pan with bowls in a 350° oven; pour boiling water into pan as high as the level of the custard inside. Bake until custard jiggles only slightly when gently shaken, about 18 to 20 minutes. Remove from water, let cool, cover, and chill.

In a saucepan, stir together ⅓ cup sugar and 1 tablespoon cornstarch. Gradually stir in 2 cups orange juice. Cook, over medium heat, stirring until it boils and thickens. Remove from heat and stir in 1 teaspoon grated orange peel, 1 can (11 oz.) mandarin oranges (drained), and 1 can (about 8 oz.) lichees or pineapple tidbits (drained). Cool, cover, and chill.

To serve, ladle cold orange soup over cold custard into each bowl. Makes 4 servings. □

If you're concerned about cholesterol:

There are 16 oz. of prevention in every pound of Saffola.



If you're trying to reduce the amount of cholesterol in your diet, you should know this: Saffola margarine contains no cholesterol.

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How to make our cake your streusel.

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Just follow this simple recipe with any of nine Betty Crocker® cake mix flavors. And your great graham cracker streusel cake is on its way.

The best things begin with Betty Crocker.®

Graham Streusel Cake

Made with Betty Crocker® Cake Mix

- 2 cups graham cracker crumbs
- ¾ cup chopped nuts
- ¾ cup brown sugar (packed)
- 1¼ teaspoons cinnamon
- ¾ cup butter or margarine, melted
- 1 cup water
- 1 package Betty Crocker® yellow, white, German chocolate, sour cream yellow, Butter Brickle,* lemon, chocolate fudge supreme, devil's food or butter pecan cake mix
- ¼ cup vegetable oil
- 3 eggs
- Vanilla Glaze (below)

Heat oven to 350°. Generously grease and flour oblong pan, 13 x 9 x 2 inches. Mix crumbs, nuts, brown sugar, cinnamon and butter; reserve. Blend cake mix, water, oil and eggs on low speed until moistened, about 30 seconds. Beat on medium speed, stirring occasionally, 3 minutes. Pour ½ of the batter (about 2½ cups) into pan; sprinkle with ½ of the reserved crumb mixture. Spread remaining batter evenly over crumb mixture; sprinkle with remaining crumb mixture. Bake until wooden pick inserted in center comes out clean, 45 to 50 minutes; cool. Drizzle cake with Vanilla Glaze.

This recipe has been tested in the Betty Crocker Kitchens using a Betty Crocker Cake Mix. For best results use Betty Crocker.

VANILLA GLAZE. Mix 1 cup powdered sugar and 1 to 2 tablespoons water until desired consistency.

®Reg. T.M. of General Mills, Inc., *Reg. T.M. of Fenn Brothers, Inc.

Look for other delicious recipes on all of our cake mix packages.

Our pride. Your joy.

We're so proud of Cracker Barrel's fine flavor and excellence, can you blame us for wanting to show-off a little? It's a delicious reason America spells cheese KRAFT.

TOP HAT CHEESE SOUFFLÉ

- ⅓ cup PARKAY Margarine
- ⅓ cup flour
- 1½ cups milk
- 1 teaspoon salt
- Dash of cayenne
- 2 cups (8 ozs.) shredded CRACKER BARREL Brand Sharp Natural Cheddar Cheese
- 6 eggs, separated

Heat oven to 300°. Make a white sauce with margarine, flour, milk and seasonings. Add cheese; stir until melted. Remove from heat. Gradually add slightly beaten egg yolks; cool. Fold into stiffly beaten egg whites; pour into a 2-quart soufflé dish or casserole. With tip of spoon, make slight indentation or "track" around top of soufflé 1-inch in from edge to form a top hat. Bake at 300°, 1 hour and 15-minutes. Serve immediately. 6 servings

KRAFT

APRIL MENUS

Some choices for Easter . . . a special brunch, a pizza that's "cooperative." And an opportunity for father-as-cook

ıe **whole family** can get involved in ır menus for April. In the first, the ;es and dislikes of pizza connoisseurs e easily solved: With our recipe, you n make the crust either thin or thick; en, since the crust is divided into sec- ɔns with ropes of dough, each diner n add his favorite topping ingredients his section.

ɔr Easter morning, a special brunch in- ıdes spicy carrot cake that children n decorate. And when it's Dad's turn cook dinner, we suggest chile with ans over hot cornmeal waffles.

Home-style pizza

ɔu can plan a party around this pizza for youngsters as well as adults.

Create-a-Pizza
Mixed Green Salad
Your Favorite Dressing
Build-your-own Sundaes

ıe pizza recipe makes 3 thin or 2 ick pizzas, enough to serve 10 to 12. ɔr a small family, prebake the crusts as e recipe directs, then freeze. You can so freeze leftover sauce.

reate-a-Pizza

issolve 1 package active dry yeast in ¼ cups warm water (about 110°). Beat 3 tablespoons salad oil, 1 teaspoon lt, and 4 cups unsifted all-purpose ɔur. With a spoon or heavy-duty mixer, at in enough additional flour (about ¼ cups) to form a moderately stiff ɔugh. Turn dough out on a floured ɔard and knead until smooth, about 3 inutes. Turn over in a greased bowl, ver, and let rise in a warm place until ɔubled, about 1 hour. Punch down.

ɔr each thin crust, use ⅓ of the dough; ıch off 2 or 3 walnut-sized pieces and t aside. Roll and stretch remaining portion to cover the bottom and rim of ■ 14-inch pizza pan. Roll balls of dough into 14-inch ropes; lay crosswise on crust, forming 4 or 6 wedges; pinch to crust edge.

For each thick crust, use ½ of the dough; pinch off 2 or 3 walnut-sized pieces and set aside. Pat and stretch remaining portion to cover the bottom and 1½ inches up sides of a 9 by 13-inch pan (dough shrinks back at first, but stays as you work it). Roll one ball of dough into a 13-inch rope; lay lengthwise down center. Roll remaining dough into 1 or 2 ropes, each 9 inches long; lay crosswise, forming 4 or 6 squares; pinch to crust edge.

Bake on the lowest rack of ■ 500° oven until crust just starts to brown, about 5 minutes for thin or 7 minutes for thick; prick bubbles while baking. (This much can be done ahead.)

To create pizzas, spread each section with a spoonful of sauce (recipe follows), then add toppings (suggestions follow). Bake until topping is bubbly and crust is browned, about 5 to 7 minutes longer for thin, or 8 to 10 minutes longer

PETER O. WHITELEY
Does everyone like *a different pizza? This four-in-one pizza solves the problem. It's divided into sections so each person in the family can add his favorite topping*

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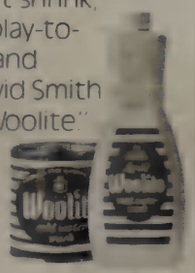

for thick. Makes 3 thin or 2 thick pizzas. —*K. H., San Jose.*

Pizza sauce. Sauté 1 medium-sized onion, chopped, and 1 clove garlic, minced or pressed, in 2 tablespoons salad oil until onion is limp. Add 1 can (8 oz.) tomato sauce, 1 can (6 oz.) tomato paste, ½ cup water, ½ teaspoon salt, 2 tablespoons parsley flakes, 1 teaspoon oregano leaves. Simmer gently, uncovered, for 10 minutes; stir often.

Toppings. For each pizza, use 2 cups shredded jack, mozzarella, or Cheddar cheese and a total of 2 to 3 cups topping such as sliced olives, chopped onion or green pepper, salami or pepperoni, cooked sausage or ground beef, or sliced mushrooms (fresh or sautéed).

Special Easter brunch

If weather permits, you might serve this make-ahead meal on the patio.

Chilled Champagne or Fruit Juice
Creamy Ham
with Artichokes and Mushrooms
Patty Shells or Hot Cooked Rice
Sliced Papaya and Kiwi Lime Wedges
Easter Carrot Cake

Prepare the ham dish up to a day ahead. Serve in 6 to 8 patty shells from a bakery (or bake frozen patty shells as package directs) or over rice.

Creamy Ham with Artichokes and Mushrooms

- ½ pound mushrooms, sliced
- 6 tablespoons butter or margarine
- ¼ teaspoon *each* dry mustard and thyme leaves
- 4 tablespoons all-purpose flour
- 1½ cups milk
- 2½ cups shredded Cheddar cheese
- 1 can (8½ oz.) quartered artichoke hearts, drained
- 2 to 3 cups cubed cooked ham
- 1 tablespoon dry Sherry
- Salt and pepper
- Patty shells or hot cooked rice

In a frying pan, sauté the mushrooms in 2 tablespoons of the butter until liquid evaporates. Add the mustard, thyme, and remaining 4 tablespoons butter. When butter melts, stir in the flour and cook until bubbly. Blend in the milk and cook, stirring, until sauce boils and thickens. Stir in the cheese, then the artichokes and ham. Cover and chill.

To serve, reheat, stirring gently. Add the Sherry, then season with salt and pepper. Place on a warming tray or transfer to a chafing dish. Let guests spoon into patty shells or over rice. Serves 6 to 8.

Easter Carrot Cake

Beat 1 cup (½ lb.) butter or margarine with 2 cups sugar until creamy. Blend in 1½ teaspoons ground cinnamon, 1 teaspoon grated orange peel, and ½ teaspoon *each* ground nutmeg and mace. Beat in 4 eggs, one at a time. Stir in 1½ cups shredded carrots (pack lightly in cup), ¾ cup chopped walnuts, and ½ cup orange juice. In another bowl, combine 2½ cups unsifted all-purpose flour, 3 teaspoons baking powder, and ½ teaspoon salt. Stir into batter.

Spread batter in a 9 by 13-inch greased and flour-dusted pan. Bake in a 350° oven for about 40 minutes or until a pick inserted in center comes out clean. Cool on a rack for 25 minutes; then turn out of pan and cool completely, right side up on a rack. Before serving, spread top of cake with cream cheese icing; decorate with jelly beans, gumdrops, and licorice as desired.

Cream cheese icing. Beat 1 small package (3 oz.) cream cheese with 1 tablespoon milk and 1 teaspoon vanilla. Gradually beat in 2 cups unsifted powdered sugar until smooth.

Dad's night to cook

The cornmeal waffles make a good base for chile or other creamy mixtures such as chicken à la king.

Dad's Special Chile with Beans
Hot Cornmeal Waffles
Chopped Onion
Shredded Cheddar Cheese
Fresh Fruit Basket

The chile and waffles can be made ahead and frozen. Thaw the chile, then reheat. Pop the waffles (without thawing) in the toaster to heat.

Dad's Special Chile with Beans

In a 5-quart pan, cook 1 pound lean ground beef and 1 medium-sized onion, chopped, over medium heat until meat is brown; drain fat. Stir in 3 tablespoons chile powder. Then stir in 1 can (oz.) tomato sauce, 1 can (10 oz.) chile-seasoned tomato cocktail, 1¼ cups water, 1 tablespoon Worcestershire, and 2 tablespoons white wine vinegar. Drain and add 2 cans (1 lb. *each*) small red beans, red kidney beans, or pinto beans.

Simmer, uncovered, for about 30 minutes or until slightly thickened. Spoon over cornmeal waffles and top with onion and cheese. Serves 6 to 8.—*M. R., Buena Park, Calif.*

Hot Cornmeal Waffles

With a fork, mix 1½ cups yellow cornmeal, ¾ cup unsifted all-purpose flour, 2 teaspoons baking powder, 1 teaspoon salt, ½ teaspoon soda, and 1 tablespoon sugar until thoroughly blended. In another bowl, lightly beat 2 egg yolks (save whites); blend in 1½ cups buttermilk and ¼ cup melted butter or margarine. Add all at once to dry ingredients and stir just until moistened. Stiffly beat egg whites; fold into batter.

Bake until golden in a preheated waffle iron as manufacturer directs. Makes about 8 waffles, each 4 inches square.

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The only thing this radio doesn't do is transmit. But Sony's new FM/AM, short wave (including Citizen's Band) radio will take you more places than you'll take it. Out of the neighborhood. Even out of the country.

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SALINAS.....Beck's Shoe Store, 354 Main St.
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Red Wing Shoe Company ▪ Red Wing, MN 55066

DARROW M. WATT

Ladle honey-sweetened *fruit soup into glass bowls to show off its colors*

Scandinavian soup uses dried fruits

Chunks of fresh pineapple combine with orange juice and sun-dried fruits to make this refreshing Scandinavian-style soup. Make it with rum or brandy to serve for dessert, or with orange or pineapple juice to enjoy at breakfast. It's good hot or cold at either time.

For the dried fruit, choose several kinds—apples, apricots, figs, peaches, pears or prunes—to make 2½ cups.

Scandinavian Dried-Fruit Soup

- 2½ cups lightly packed, mixed dried fruit (suggestions above), cut in 1-inch pieces
- ½ cup raisins
- 1 3-inch stick cinnamon
- ½ medium-sized lemon, thinly sliced
- 3½ cups water
- 2 cups orange juice
- 1½ cups fresh or canned unsweetened pineapple chunks (drained)
- ⅔ to ¾ cup honey (to taste)
- ⅛ teaspoon salt
- 2 tablespoons quick-cooking tapioca
- ⅓ cup rum or brandy (or orange juice or juice from canned pineapple)
- Vanilla yogurt or sour cream

In a 3-quart pan, combine the dried fruit, raisins, cinnamon, lemon slices, water and orange juice; bring to a boil over high heat. Reduce heat to medium low, cover, and simmer 10 minutes.

Remove from heat and add the pineapple, honey, salt, tapioca, and rum (or juice). Let stand 5 minutes to allow tapioca to soften.

Return mixture to medium-low heat and cook, uncovered, 12 to 15 minutes longer or until mixture is thickened and fruit is tender but not mushy. Serve hot, or cover and refrigerate to serve cold. Top individual servings with spoonfuls of yogurt or sour cream.—*D. D., San Luis Obispo, Calif.*

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DARROW M. WATT

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Anything goes with coleslaw... including fruits, nuts, cheese, ham

There are almost as many recipes for coleslaw as there are cooks. And the only constant ingredient seems to be the shredded cabbage.

These three recipes attest to the versatility of coleslaw and the variety of flavors possible. You can mix fruit and nuts with cabbage and dress it with flavored yogurt, or make a whole-meal slaw by adding meat and cheese. Crisp vegetables and peanuts add lots of crunch to a third version.

For even more variation, you can use different types of cabbage. Curly-leaf Savoy cabbage (shown above), red cabbage, Chinese or napa cabbage, and th familiar spring cabbage can all be use Or try a combination.

Fruit and Nut Slaw

- 1 can (11 oz.) mandarin oranges
- 5 cups finely shredded cabbage
- 1 cup thinly sliced celery
- ½ cup raisins or chopped dates
- 2 tablespoons lemon juice
- 1 large banana
- 1 tart apple, unpeeled
- ½ cup chopped nuts
- 1 carton (8 oz.) orange-flavored yogurt
- ½ teaspoon salt
- ¾ teaspoon poppy seed

Drain mandarin oranges, saving th syrup. Combine oranges, cabbage, ce ery, and raisins. Combine reserved ma darin syrup and lemon juice. Slice th banana and cut the unpeeled apple in thin bite-sized pieces, dip into juice mi ture to prevent discoloration, then ad to slaw along with nuts.

For the dressing, stir together unt smooth 2 tablespoons of the juice mi ture, the yogurt, and salt. Pour dressin over salad and mix gently; sprinkle wit poppy seed. Makes 4 to 6 servings.

Chef's Coleslaw Salad

For the dressing, stir together ¾ cu sour cream, ¼ cup milk, 2 tablespoon vinegar, ¼ teaspoon pepper, and 2 te spoons *each* seasoned salt, brown suga and Dijon mustard.

Combine 5 cups finely shredded ca bage; 1½ cups (8 oz.) cooked han chicken, or tongue (in julienne strips 1½ cups (8 oz.) Cheddar, jack, or Swi cheese (in julienne strips); ½ cup dice mild red onion, 1 cup diced peele cucumber, and 2 teaspoons caraway see

Pour dressing over cabbage and mi gently. Garnish with sliced black olive Makes 4 to 6 main-dish servings.—*H. S Fort Bragg, Calif.*

Crunchy Vegetable Slaw

Combine 5 cups finely shredded ca bage, ½ cup sliced green onion c chopped mild red onion, 1 small red c green bell pepper (diced), 1 cup thinl sliced celery or carrot, ¼ pound bea sprouts, and 1 can (6 oz.) water ches nuts (drained and sliced).

For the dressing, combine 1 cup mayo naise, 1 tablespoon mustard seed, 1½ teaspoons *each* prepared horseradish an Worcestershire, 2 tablespoons swe pickle relish, and ¼ teaspoon salt.

Pour dressing over slaw and mix gentl top with ½ cup dry roasted Spanish pe nuts. Makes 4 to 6 servings.

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TWA

"Man does not live by bread alone ... a little butter, an egg, or a chop is also welcome"

Man does not live by bread alone . . . a little butter, an egg, or a chop is also welcome. But these all derive from grass in some form or other—so we're really coming full circle. As the ancient rule of the marketplace has it: When corn is dear, chops disappear.

No wonder then that grains and grasses occupy a lot of our attention. Not so long ago professional plant breeders, searching for a wheat that will not rust or a rice that does not lie down to rest in the mud before harvest, decided that if they could cross wheat and rye they would obtain a grass far superior to either. But until quite recently their work produced only botanical mules, strong and willing, but sterile.

Then one day, along a road near the growing grounds, there they were—sturdy stalks, big heads rich in protein, and fertile as well: triticale, the long-sought hybrid.

Of course one of the *Chefs* was waiting, pot in hand, when this ultramodern grain reached market. It was *Chef* Michael Orth, and with the grain and his trusty electric slow cooker he created a medieval dish called frumenty. Of it h says, "Cheaper and better than oatmea sticks all morning, satisfies the healt food zanies—for 25 cents a pound, wh more do you want?"

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Frumenty Triticale

1 cup triticale
3 cups cold water

Rinse the grain, discarding unhusk kernels. Place in an electric slow cook

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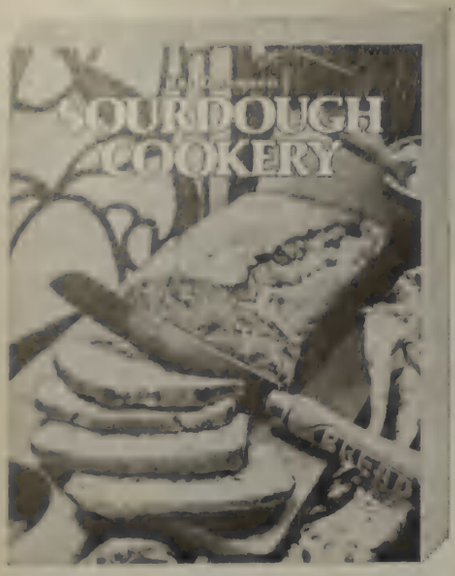

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with the water, cover, and set on lowest heat. (Or use a heavy saucepan on top of range on lowest heat.) Let steep, barely warm, 12 hours in a slow cooker, 6 hours on top of range. It will look custardy when done. Stir occasionally; add some water if grain looks dry. Makes about 3 cups.

San Luis Obispo, Calif.

Millions of years of research went into the bird's egg. The final product had to contain enough food and water to supply a growing child (feathered model) for up to a month, and all inside a package that was sturdy enough for protection, but easy to open when the time came.

Many of us feel that the optimum egg, the ovum of Nobel quality, belongs to the chicken. This fine version does what it must to produce more chickens, and will also do almost anything else you ask of it. Lester P. Jeter of Seattle uses it as a base for his Total Breakfast.

Steamboat Eggs

- 1 package (3 oz.) cream cheese
- 4 tablespoons butter or margarine
- 1 tablespoon curry powder
- ½ pound mushrooms, sliced
- 1 cup diced, cooked ham
- ¼ cup dry Sherry
- 12 eggs
- 1 teaspoon paprika
- ½ teaspoon instant minced onion
- ½ teaspoon garlic salt
- ¼ teaspoon pepper

Cut cream cheese into small cubes and let reach room temperature. Heat 2 tablespoons of the butter in a large frying pan over medium-high heat; add curry powder and mushrooms and cook 3 to 4 minutes, then add the ham. When lightly browned, add Sherry. Cook, uncovered, over high heat until liquid is reduced to about 1 tablespoon. Reduce heat to low.

Meanwhile, beat the eggs with the paprika, onion, garlic salt, and pepper; add ham mixture and liquid. Melt remaining 2 tablespoons butter in pan. Pour egg mixture into pan and cook over low heat, lifting cooked edges occasionally to allow liquid portion to flow underneath. When eggs are partially set but still moist looking, scatter cream cheese over the surface. When set to your liking, spoon or slide eggs onto a warm serving platter. Makes 6 to 8 servings.

Seattle

"The smaller the portions, the better job the wok does," says Del Myers of his stir-fry recipe. In other words, wok cookery lends itself to dinner for two, a romantic thought complemented by the romantic name of his recipe: Eight Pre cious Gold Coins. The cooking proceed at a rapid pace, so have all of the ingre dients assembled and close at hand be fore heating the wok.

Eight Precious Gold Coins

- About 3 tablespoons salad oil
- 1 whole (about 1 lb.) chicken breast, skinned, boned, and sliced very thin
- 2 cups thinly sliced carrot
- 2 cups thinly sliced celery
- ½ cup thinly sliced green onion
- 2 cloves garlic, minced or pressed
- ½ cup (2½ oz.) roasted, salted cashews
- 3 tablespoons soy sauce
- 1 tablespoon cornstarch blended with ½ cup water
- Hot cooked rice
- Sliced red radishes

Heat 3 tablespoons oil in a wok or heav frying pan over high heat; add chicke and stir-fry 2 minutes or until opaqu throughout. Lift out and set aside. Ad carrots, and more oil if needed, to wok stir for 2 minutes. Add celery, onion and garlic and stir-fry for 2 more min utes. Return chicken to wok and ad cashews, soy, and cornstarch mixtur Stir and cook until thickened. Serve once with rice and radishes for garnish Serves 2 or 3.

Tucson

"For ham, sweet mustard with authority"

Chef Sidney Newell is from Vancouve Washington, but he came across the lo lowing mustard down in Modoc Count California, where a ranching family f vored him with the recipe. The sweetne goes well with ham, corned beef, a other cold cuts sliced and served hot a dark, dark bread. But, like Chine

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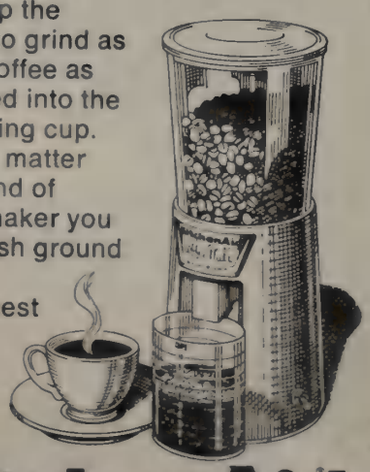

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mustard it has authority—a little goes a long way.

Modoc Mustard

- 6 tablespoons dry mustard
- 1 tablespoon all-purpose flour
- 2 tablespoons sugar
- 1 teaspoon salt
- 1 teaspoon Worcestershire
- 6 drops liquid hot pepper seasoning
- 3 tablespoons cider vinegar

Blend mustard, flour, sugar, and salt in a small bowl or measuring cup. Blend in Worcestershire and hot pepper seasoning with fork or wire whisk. Add 1 tablespoon of the vinegar at a time, beating constantly. Mustard should not be runny. Makes about ⅓ cup.

Sidney W. Newell
Vancouver, Wash.

A plain boiled chicken with some onions and herbs in the broth is so very good that politicians have promised the dish to their constituents since at least the 16th century—when Henry of Navarre became king of France after promising the citizens he would change his religion and distribute chicken.

Here is *Chef* Leo Thielke's version of chicken in the pot.

Chicken and Dumplings

- 3 pound broiler-fryer chicken, whole or quartered
- 6 cups water
- 1 large onion, chopped
- 2 cloves garlic, minced or pressed
- 3 stalks celery, cut in short lengths
- 1 teaspoon salt
- ¼ teaspoon *each* pepper and rubbed sage
- 1 bay leaf
- 1 cup dry white wine or dry vermouth
- 2 cups biscuit mix (baking mix)
- ½ cup milk
- Chopped parsley

Place the chicken in a 5-quart kettle; add water, onion, garlic, celery, salt, pepper, sage, bay leaf, and wine. Bring to a boil; reduce heat, cover, and simmer for hour or until chicken is very tender when pierced.

Remove chicken and bay leaf from the broth; when the chicken is cool enough to handle, remove the meat in large chunks; discard the skin and bones.

Skim fat from broth; boil broth, uncovered, over high heat until reduced to about 6 cups.

Then return meat to broth. With a fork stir together the biscuit mix and milk; spoon dough in 10 to 12 equal portions onto boiling broth.

Reduce heat to low and cook, uncovered 10 minutes; then cover and cook 1 minutes longer or until dumplings are cooked throughout. Garnish with chopped parsley. Makes 6 servings.

Leo Thielke
Mountain View, Calif.

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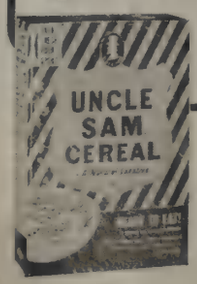

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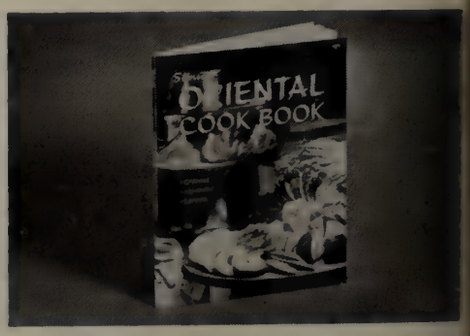

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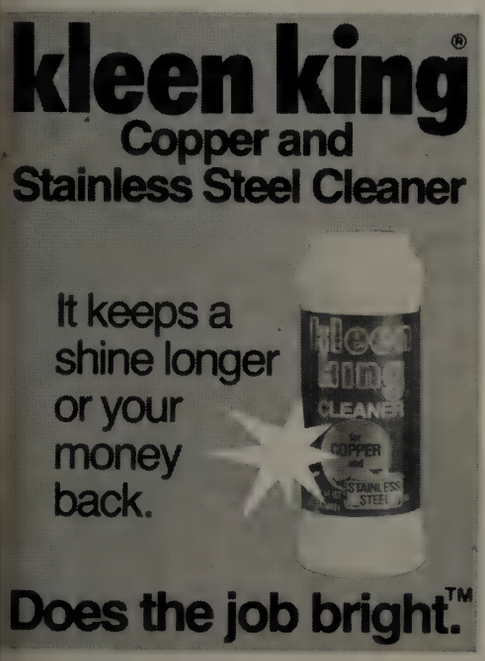

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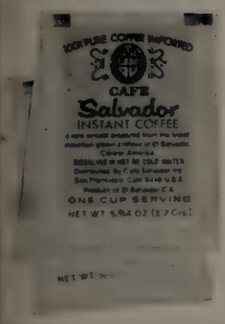

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Milk candies of Latin America

Throughout Latin America, caramel-flavored confections made of slowly cooked milk are popular treats. Whether they're called *dulce de leche* (sweets of milk), *leche quemada* (burnt milk), *Arequipa* (named for a Peruvian city), or *cajeta* (from the name of a box sometimes used to package the candies), they all have a rich caramel taste that results from cooking milk and sugar together.

Some recipes call for whole milk and sugar to cook for an extended time; other methods incorporate shortcuts, as we do here. To make our recipe, you caramelize part of the sugar; then add canned evaporated milk, which shortens the cooking time. Also, the candy doesn't require beating. From melting the sugar to pouring it out to cool, it takes about 1 hour.

The cooled candies have a consistency similar to fudge. The first candy is spiced by cinnamon and laced with coconut; the variation has chopped walnuts and orange peel.

Coconut Milk Candy

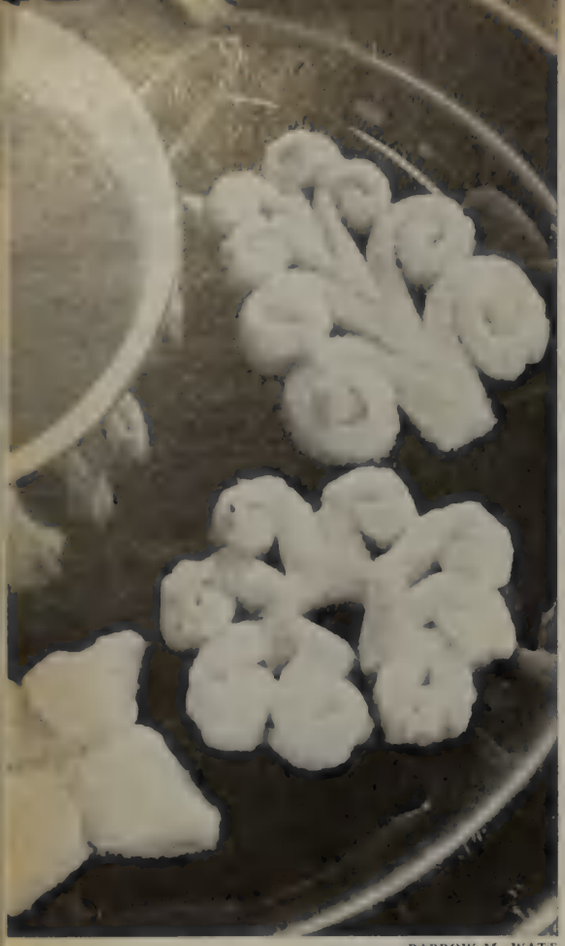
- 3 cups sugar
- ¼ cup water
- 1 can (13 oz.) evaporated milk
- ¼ teaspoon *each* salt and ground cinnamon
- 1 teaspoon vanilla
- 1 cup shredded coconut

Put 1 cup of the sugar in a heavy 3-quart saucepan and place over medium heat. When sugar begins to melt, tilt pan back and forth to mix until melted and amber in color. Add water all at once, and continue to cook and stir until hardened caramel dissolves and forms a syrup. Add remaining 2 cups sugar, milk, salt, and cinnamon, and cook over medium heat, stirring often, until mixture reaches 240° on a candy thermometer (the soft ball stage).

Remove from heat; add the vanilla and shredded coconut and mix until well blended. Immediately pour mixture into a buttered 8 or 9-inch square pan. Place pan on a wire rack to cool.

After about 3 hours, turn candy out of pan. Cut into ¾-inch squares. Cover and store at room temperature. Makes 2 pounds.—*F. Q., Piru, Calif.*

Orange Walnut Candy. Follow preceding recipe for coconut candy but omit cinnamon and coconut and instead add 2 teaspoons grated orange peel with the sugar and milk, and stir in 1 cup chopped walnuts when you add the vanilla. □



DARROW M. WATT

Crisp, spicy cookies *have been cut, curled, and pinched into fancy shapes. Serve them with hot chocolate or coffee*

How to make *bizcochitos*, a treat from New Mexico

Special occasions such as Easter, Christmas, and birthdays in New Mexico call for cookies named *bizcochitos* (bees-co-*chee*-toes). They are rich, crisp, and flavored with anise seed and cinnamon.

The traditional way to shape them is to cut squares or rectangles of dough, then cut, pinch, and curl each to make designs like those shown here.

It takes nimble fingers, time, and a little practice, but making them can be a challenging and enjoyable activity for families with older children or for a group of friends. The cookies can also be simply cut out with cutters; a fleur-de-lis is a traditional cutter shape.

In New Mexico, these cookies are made with lard, but you may prefer the flavor of butter or shortening.

New Mexico Spice Cookies (*Bizcochitos*)

Finely crush 3 teaspoons whole anise seed, set aside.

In the large bowl of an electric mixer, beat 1 cup lard, solid shortening, or butter until creamy. Gradually add ½ cup sugar, beating until you can no longer feel grains of sugar when mixture is rubbed between your fingers. Add 1 egg and beat well.

Mix 3 cups regular all-purpose flour (unsifted) with 1½ teaspoons baking powder, ¾ teaspoon salt, and the anise. Have ready 3 to 4 tablespoons brandy, Sherry, or white Port (or ¾ teaspoon vanilla mixed with ⅛ teaspoon almond flavoring and 2 to 3 tablespoons water). Mix ¼ cup sugar with 2 teaspoons ground cinnamon and put into a shaker container, if available.

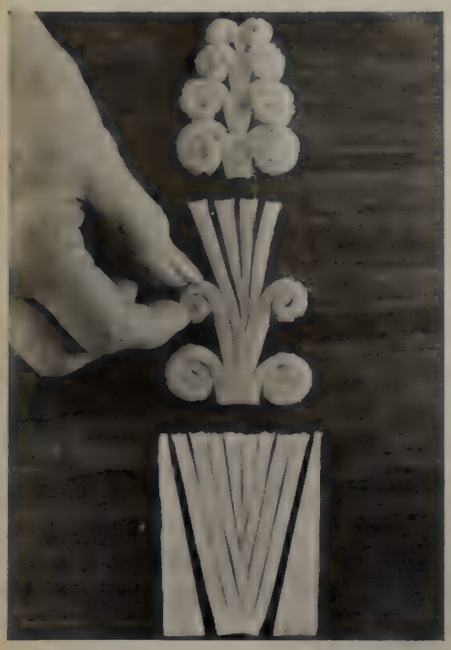
Gradually beat flour mixture into creamed mixture, alternating with 3 tablespoons of the brandy. Turn out on a lightly floured board and knead until a smooth, pliable (but not sticky) dough forms, adding a little more brandy or water if needed.

To shape cookies as shown here, divide dough into 3 portions. On a lightly floured board, roll out one portion at a time to a 3/16-inch-thick rectangle with straight sides; keep remaining dough covered. Trim edges and add scraps to remaining dough. You might make one portion of dough into each of the shapes shown below.

For best results, measure and cut accurately, following the directions illustrated below. With a clean ruler and long French knife, mark off and cut squares or rectangles as directed. Use small sharp knives to cut slashes in each cooky. The dough is pliable, so cracks and breaks can be pinched together. Keep pushing toward center to make cookies compact rather than spread out.

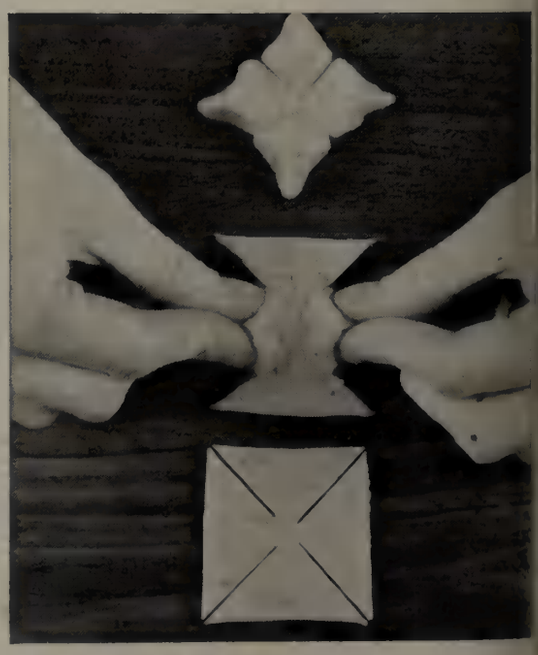
Or, if you prefer, simply roll dough to 3/16 inch thick and cut with small cooky cutters.

Place cookies slightly apart on ungreased baking sheets, sprinkle tops with cinnamon-sugar, and bake in a 350° oven until lightly browned, about 10 to 12 minutes. Cool on racks, then store in covered containers. Makes about 5 dozen.—*B. L., Las Vegas, N.M.* □



Tall tree. *Slant long sides of a 1¾ by 3-inch rectangle and make equal spaced slashes as shown; curl opposite strips out and down*

Little flower. *Make center cut first in 1½ by 2-inch rectangle, then cut in 8 equal strips; twirl each out and down, pinching toward center*



Butterfly. *Cut from corners of 1¾-inch square to within ¼ inch of center; grasp points on opposite sides, then pinch and push them toward center*

"Nancy, that was the best salad I've ever eaten."

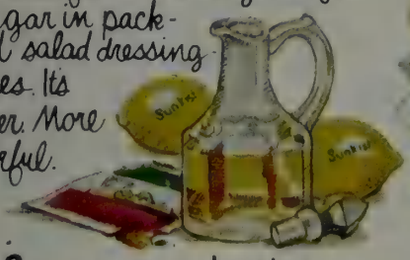
Nancy's favorite Recipes

The squeeze-on dressing.

You get a well-dressed salad but few calories. Just cut Sunkist lemon wedges and squeeze juice over your favorite green salad.

The livelier "homemade" dressing.

Substitute fresh lemon juice for vinegar in packaged salad dressing mixes. It's fresher. More flavorful.

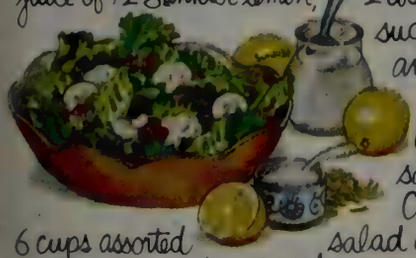


Lemon sesame dressing.

A wonderful mix of flavors. Combine 1/3 cup salad oil, juice of 1 Sunkist lemon, 1 tbsp. toasted sesame seed, 2 tsp. sugar, and 1/2 tsp. onion salt. Shake. Toss with salad greens.

Salad à la Sour Cream.

This is a hearty one. Combine 1 cup dairy sour cream, grated peel and juice of 1/2 Sunkist lemon, 2 tbsp. sugar, and 1 tsp. celery salt; chill. Combine 6 cups assorted salad greens, 2 cups shredded red cabbage, 1 cup sliced cauliflowerets, and 1 cup cucumber slices; chill. Serve dressing over salad. Serves 6.



The best Caesar salad

To 1/2 cup olive or salad oil add 1 clove garlic, minced. Toss 2 med. heads romaine lettuce, torn in pieces with oil, 1 tsp. salt and pepper to taste. Break 1 coddled egg over salad; squeeze on juice of 2 Sunkist lemons. Add 1 tbsp. Worcestershire sauce and 6 anchovy fillets; toss. Add 1 cup croutons and 1/3 cup grated Parmesan cheese; toss lightly. Serves 6.

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"Of course. I made it with Sunkist® Lemons."

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To make nougat, *beat fluffy marshmallow cream stock, into hot syrup; stir in flavorings and toasted nuts*

For Easter baskets, for gifts, or just for a treat . . . nougat

DAKROW M. WAT

Pam and Tonya *eagerly await the final results, a slice o nougat coated with caramel and nuts. The candy is also good plai*

This soft, chewy, nut-studded nougat is easy to make at home for gifts and Easter baskets. You get professional-looking results at about half the cost.

First you make a marshmallow cream stock by beating hot syrup into egg whites. Then beat this fluffy cream, flavoring, and nuts into another hot syrup mixture. Let nougat set in a pan, then cut into bite-sized pieces. Or, to make Caramel Nut Rolls cut into logs, chill, and dip in melted caramels and nuts.

Keep the nougat tightly wrapped to prevent spreading and sticking. Store it at room temperature up to two weeks, or chill for longer storage; it will stay fresh up to about a month. For best texture, let chilled candy warm to room temperature before serving.

Nut Nougat

- 2 cups (¾ lb.) whole almonds
- Marshmallow cream stock (recipe follows)
- 2 cups *each* sugar and light corn syrup
- ⅔ cup water
- ½ cup butter, margarine, or shortening
- ½ teaspoon salt
- 2 tablespoons vanilla
- ¼ teaspoon almond flavoring

Place nuts in a single layer in a shallow pan. Bake, uncovered, in a 350° oven until golden, 15 to 18 minutes. Coarsely chop nuts, if desired. Make the marshmallow cream stock; set aside.

In a heavy 3-quart pan stir together the sugar, syrup, and water. Cook to 272° on a candy thermometer. Remove from heat and pour marshmallow cream stock over syrup; let stand 5 minutes without stirring. Add butter, salt, vanilla, and almond flavoring; beat until well blended. Stir in nuts. Pour into a well-buttered 8 or 9-inch square pan. Set on rack and let cool until firm, about 3 hours.

Loosen sides and bottom with a wide spatula, turn out onto a board, and cut into bite-sized pieces (about ¾-inch cubes). Immediately wrap each piece in 4-inch squares of waxed paper (or chill until ready to wrap). Makes about 3½ pounds.—*R. N., Anchorage.*

Marshmallow cream stock. In a pan stir together ¾ cup *each* sugar and light corn syrup, and ½ cup water. Cook to 238°. In a mixing bowl beat 2 egg whites and ⅛ teaspoon salt into short, stiff moist peaks. In a thin steady stream, gradually pour hot syrup into beaten whites, beating until whites are stiff and glossy.

Caramel Nut Rolls

Make Nut Nougat through cooling stage, then cut into 16 equal strips about 1 by 4 inches. Place slightly apart on a pan; chill until very firm and cold.

In the top of a double boiler, combine 3 packages (14 oz. *each*) caramels and 4½ tablespoons water; place over simmering water; cook, stirring occasionally, unti caramels melt. Place 5 cups whole al monds in a single layer in a shallow pan Bake, uncovered, in a 350° oven unti golden, 15 to 18 minutes, shaking pa occasionally. Cool, then coarsely cho and return to shallow pan.

When caramels are melted, remove fro range, but keep over hot water. Dro one cold nougat strip at a time (kee remaining chilled) into the caramel quickly turning it with 2 forks to coa all sides. Lift nougat from the carame with a fork, drain briefly, then place o nuts. Gently turn, covering entire su face with nuts and pressing strip int log shape.

As each roll is done, tightly wrap in piece of heavy clear plastic film. Repea with remaining chilled nougat strips. I caramel becomes too cool, reheat wate to simmering and stir caramel mixtur over it until hot again. Tightly pac wrapped rolls in a single layer in a sha low pan. Let stand at least 8 hours t bring to room temperature before un wrapping and slicing.

Just before serving, slice with a thi sharp knife, using a sawing motio (wrap slices individually, if cut ahead) Makes 16 nut rolls.

NOW TRY NATURE VALLEY GRANOLA BARS FOR PEANUTS

INTRODUCING A NEW FOURTH FLAVOR. PEANUT! AT A NICE LITTLE SAVING.

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SNACK GOES GRANOLA!

DARROW M. WAT

Large plastic bag *encases the chuck roast, vegetables, and seasonings while they marinate*

This sauerbraten is braised deliciously in the oven

Bargain-priced beef chuck turns into a succulent roast when prepared in the German style as sauerbraten.

Most sauerbraten is pot-roasted on top of the range. But this version, from the Rhineland, is braised in the oven. Its flavor is distinguished by the sour cream, raisins, and gingersnap crumbs in the marinade-based cooking liquid. When served, the roast is smothered with this creamy sweet-tart gravy and surrounded with cooked dried fruit.

To accompany sauerbraten, we suggest German-style potato pancakes (see page 236). They're especially good with some of the gravy spooned over.

Rhenish-style Sauerbraten

- 4½ to 5 pounds blade-cut beef chuck roast
- 2 large onions, sliced
- 2 stalks celery, cut into chunks
- 2 carrots, cut into chunks
- 3 bay leaves
- 1½ cups red wine vinegar
- ¾ cup *each* dry red wine and water
- ½ teaspoon *each* whole black pepper, whole cloves, and whole mustard seed
- Salt
- 1 tablespoon salad oil
- About 16 gingersnaps
- Water
- 2 tablespoons brown sugar
- ½ cup raisins
- 1 tablespoon flour mixed with ½ cup sour cream
- Cooked dried fruit (directions follow)

Lay a large plastic bag (at least 15 by 18-inch) in a large baking pan; place meat inside and top with onions, celery, carrots, and bay leaves. Stir together vinegar, wine, water, pepper, cloves, and mustard seed; pour over meat and vegetables, keeping all inside bag. Squeeze out excess air and close bag with a wire twist. Refrigerate 2 to 4 days, turning bag several times.

To cook, lift vegetables and seasonings from roast and drain off marinade; reserve all. Remove roast from bag, dry, then lightly sprinkle with salt. Brush oil over the bottom of a roasting pan, set in the roast, and bake, uncovered, in a 450° oven for 30 minutes, turning once. Add vegetables, marinade, and whole spices, then cover pan with foil. Reduce oven heat to 300° and bake for 2½ hours or until meat is very tender.

Lift off and discard vegetables. Pour marinade through a wire strainer, skim off fat, and reserve for sauce; discard spices. Keep roast in a warm oven.

Place 3 cups of reserved marinade in saucepan (discard any extra or add enough water to make this amount). Crush enough gingersnaps to make ½ cup crumbs; mix with ½ cup water until blended. Stir crumb mixture into marinade; cook and stir over medium heat until thickened. Remove from heat.

Stir in the brown sugar, raisins, and sour cream mixture; return to medium heat and cook and stir just until mixture comes to a boil. Pour half the sauce over the meat; surround with cooked dried fruit. Serve with remaining sauce to spoon over individual servings. Makes about 8 servings.

Cooked dried fruit. Place 1 package (12 oz.) mixed dried fruit in a saucepan with just enough water to cover. Simmer over medium-low heat until fruit is tender and water has been absorbed, about 5 minutes. □

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Apple pizza . . . you can have it for lunch or for dessert

From its whole wheat pastry laden with apples and cheese, to the nutty streusel topping, this pizza is an especially nutritious version of apple pie. It's sweet enough for dessert, but not too sweet for a brunch entrée.

You can make the pastry and assemble the dish ahead, then bake it just before your guests are due. They'll walk in to the fragrance of warm apples and cinnamon.

Apple Pizza

First, make the whole wheat pastry. In a large bowl, combine 1½ cups whole wheat flour with ⅓ cup firmly packed brown sugar and ¾ cup rolled oats. Add ¾ cup (⅜ lb.) butter or margarine (cut in pieces) and rub mixture between your fingers until of uniform consistency. With a fork, beat 1 egg yolk with 1 teaspoon vanilla; stir into flour mixture, then work dough with your hands until it becomes a smooth, noncrumbly ball (the heat of your hands softens the butter to help dough stick together).

Set aside ½ cup of the pastry; press remainder over the bottom of a 12-inch pizza pan. Bake in a 300° oven for 20 minutes; remove. Add topping (directions follow). If made ahead, cover pizza tightly and refrigerate up to 6 hours.

Increase oven temperature to 350° and bake on the lowest rack for 40 to 45 minutes or until apples are tender when pierced. Cool 5 minutes, then cut in wedges and serve on plates. Offer plain or vanilla-flavored yogurt, or vanilla ice cream, to spoon over individual servings, if desired. Makes about 8 servings. *K. C., Palo Alto, Calif.*

Topping. Shred about 10 ounces sharp Cheddar cheese to make 2½ cups. Sprinkle the cheese over the baked pastry shell, then top with ½ cup raisins. Remove cores from 3 medium-sized tart cooking apples (peeled or unpeeled) and cut into ¼-inch-thick slices. Arrange apples evenly over the raisins, slightly overlapping.

Combine ½ cup chopped walnuts or almonds, ⅓ to ½ cup (or to taste) firmly packed brown sugar, 1 teaspoon ground cinnamon, ¼ teaspoon ground nutmeg and the ½ cup reserved pastry; mix well and scatter evenly over apples.

DARROW M. WATT

Dessert or brunch pizza *combines shredded cheese, raisins, apples. It's topped with spices and nuts*

If you're looking for a creamy frosting with deep, rich flavor, we've got it made.

Betty Crocker® Ready to Spread Frosting is actually creamier, spreads easier than homemade buttercream frosting. And it couldn't be more convenient. Pop the top and you've got it made.

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Sometimes nature makes you work a little harder to get the best tasting foods.

The best part of a pineapple, for instance, is deep inside. And to get it you have to carve away a lot of the outside.

The best part of a ham is the leanest. To get it we carve away two-thirds of a whole ham. What is left is Golden Star by Armour, the filet of ham.

Golden Star is lean, tender, juicy ham that's been carefully cooked for hours in its natural juices to bring out all the delicious ham flavor.

Try Golden Star in the convenient 1½ pound small family size. This little filet of ham can make a big occasion out of any small family meal. It's easy to serve and there's just enough for four very generous servings.

Golden Star by Armour, the filet of ham.

The only thing you'll throw away is the can.

GOLDEN STAR by Armour

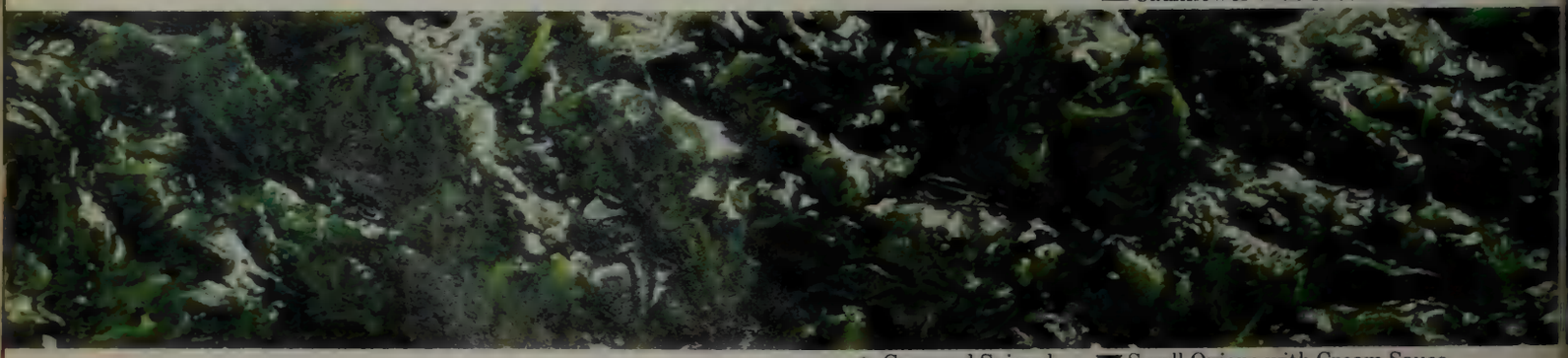
Reach for quality. Reach for the stars.

▲ Broccoli with Cheese Sauce

▲ French Green Beans with Toasted Almonds

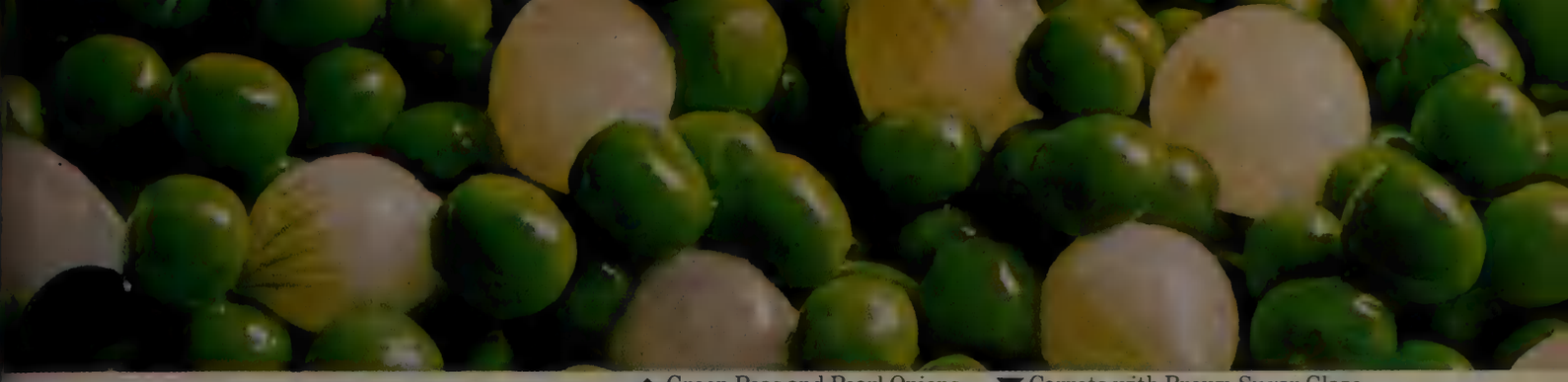
▲ Green Peas with Cream Sauce

▲ Cauliflower with Cheese Sauce

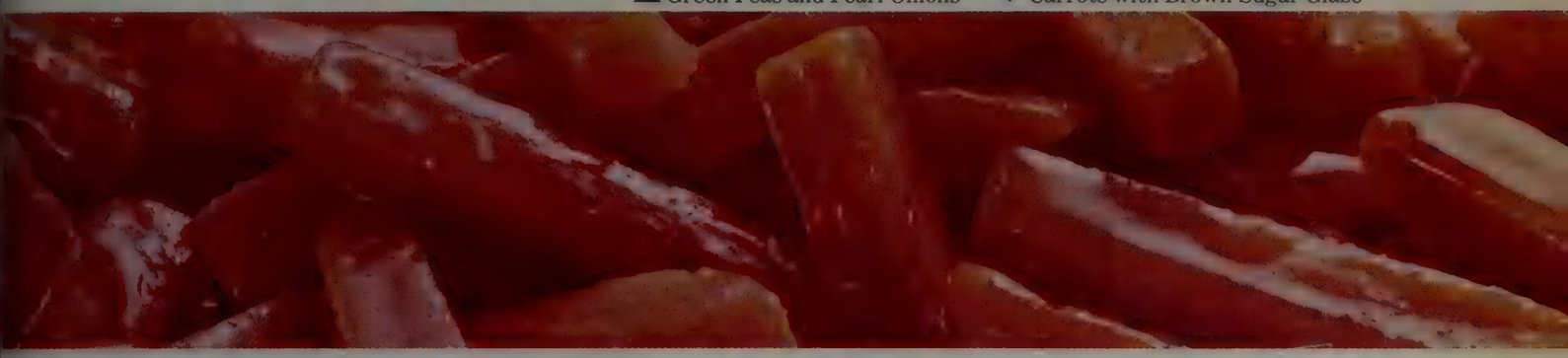


▲ Creamed Spinach ▼ Small Onions with Cream Sauce

GENERAL FOODS



▲ Green Peas and Pearl Onions ▼ Carrots with Brown Sugar Glaze



Birds Eye® Combinations will do almost anything to get your husband's attention.

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Birds Eye® Combinations are mixed vegetables, glazed vegetables, vegetables in a cream sauce, vegetables with almonds, interesting, colorful, exciting vegetables.

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Lasagna, with love-Italian style.

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Lasagna "al Forno"

1 lb. ground beef
1 small onion, minced
1 clove garlic, minced
2 Tbsp. olive oil
2 (15 oz.) cans Golden Grain Marinara Sauce
Salt and pepper
1 pkg. (10 oz.) Golden Grain Lasagna
1 lb. Mozzarella, sliced thin
2 hard cooked eggs, sliced
¼ cup grated Parmesan cheese

Brown ground beef, onion and garlic in oil. Add sauce; simmer 15 min. Season with salt and pepper. Cook lasagna as directed on package. Layer in oblong baking dish: sauce, lasagna, cheese, eggs, Parmesan cheese. Repeat layers; top with sauce and cheese. Bake at 375° F., 20 min. Serves 6.

THE GOLDEN GRAIN FAMILY OF FINE FOODS

Potato pancakes almost any time

In many German homes, it's traditiona to serve crisp pan-fried potato pancakes with sauerbraten (see page 230). Bu they're so good, it's a shame not to serve them more often—with eggs and bacon for breakfast in place of hash browned potatoes; topped with a meat patty; or as a vegetable side dish to accompany a variety of entrées.

Here are two ways to prepare them—as individual pan-fried patties and as a big oven-baked pancake that you cut into portions to serve. In either case, you'll need a shredder or grater to shred the fresh potatoes.

Crispy Potato Pancakes

- 2 pounds (about 5 medium-sized) baking potatoes
- Water
- 1 tablespoon lemon juice
- 1 egg
- 3 tablespoons all-purpose flour
- ⅓ cup very finely chopped onion
- 1 teaspoon salt
- Dash pepper
- ½ teaspoon caraway seed (optional)
- ¼ cup bacon drippings, butter, or margarine

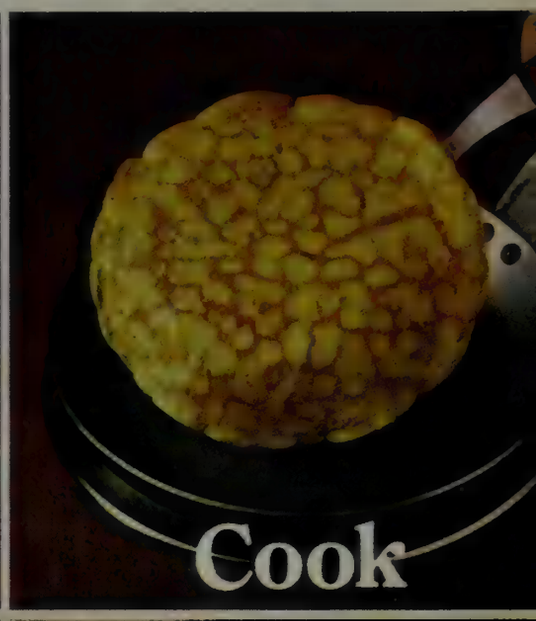
Peel the potatoes and immediately pu them into a bowl and cover with water Add the lemon juice to another larg bowl of water. Then coarsely shred th potatoes (use the large holes) directl into the lemon water and keep then submerged to prevent discoloration.

Beat together the egg, flour, onion, salt pepper, and caraway (if used). Drain th potatoes, a portion at a time, squeezin out as much moisture as possible; sti into the egg mixture and blend well.

In a large frying pan, heat the baco drippings or melt the butter over mediun heat. Spoon into the pan about ½ cu of the batter for each pancake; flatte each into a 4 to 5-inch round. Fry unti both sides are very crisp and golde brown, carefully turning pancakes wit a wide spatula. If necessary, place pan cakes in a warm oven to keep hot unt serving. Makes 8.

Oven-baked potato pancake. Prepar potato batter as directed above. Hea the drippings or melt the butter and plac about 2 tablespoons in a 9-inch roun or square baking pan. Spoon potato ba ter into pan and spread to make leve Drizzle remaining drippings or butte over the top. Bake, uncovered, in a 425 oven until very browned and crispy about 45 minutes. Cut into 6 to 8 wedge or squares; lift out of pan with a wid spatula to serve.

Now, Aunt Jemima makes Crepes easy.



Introducing the first Crepe Mix and the first Frozen Crepe Batter ever.

Now, crepes are easier than ever. With Aunt Jemima Frozen Crepe Batter, just defrost and pour. With Crepe Mix, just add fresh eggs and water. Both make perfect crepe batter every time.

Aunt Jemima takes care of the batter, and that lets you get to the fun parts more quickly.

And what fun you can have. For entrees, fill them with chicken, seafood, even with leftovers. For desserts, fill them with fruits, or ice cream, and add your favorite toppings. Look for helpful recipes on each package.

Don't hold back. Let your imagination take over. With new Aunt Jemima Crepe Mix or Frozen Batter, it's quick and easy.

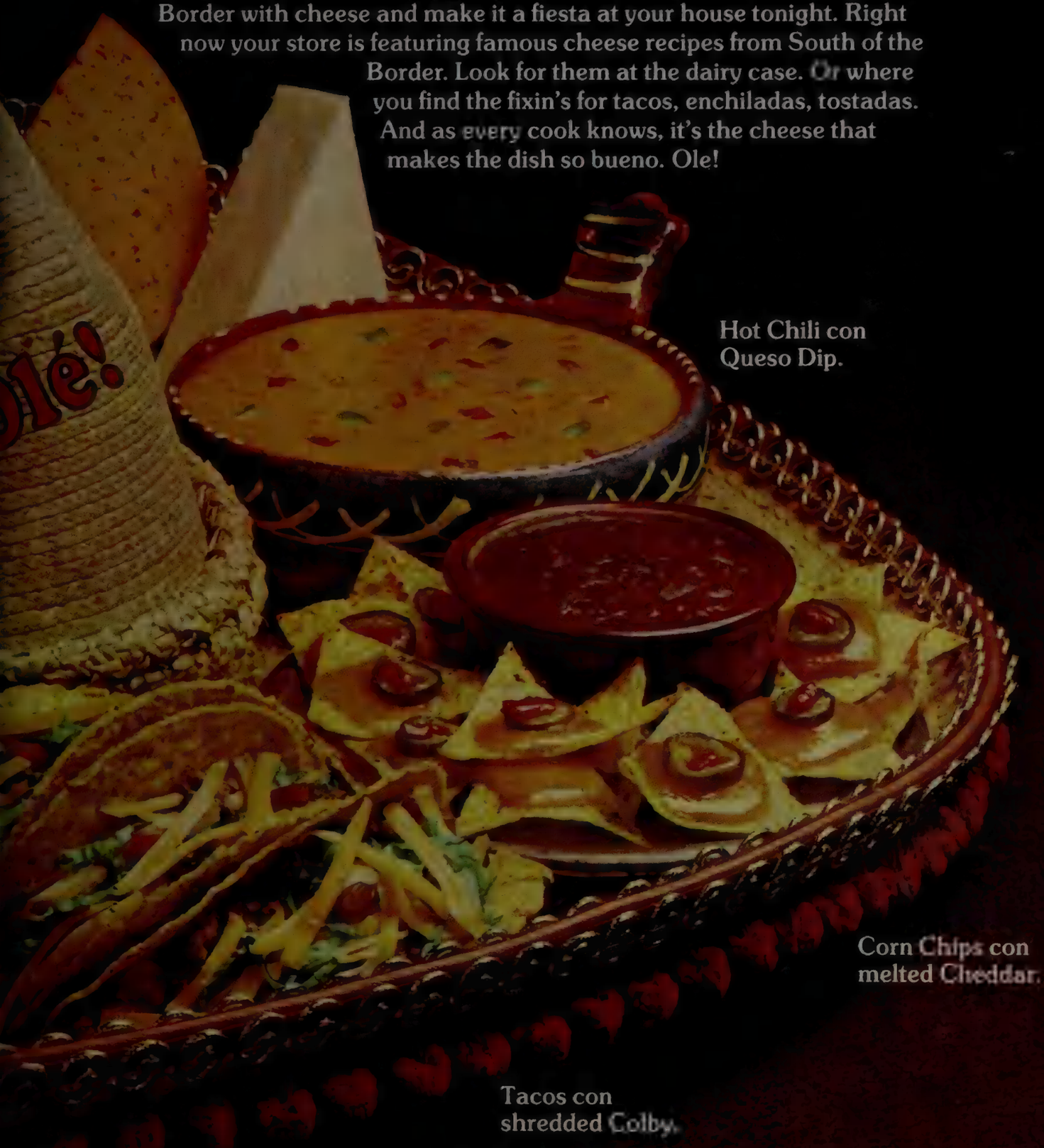
Go South of the

Chili con
shredded Cheddar.

Enchiladas con
melted Cheddar.

Border Tonight with Cheese!

Take a break from those everyday, ho-hum menus . . . go South of the Border with cheese and make it a fiesta at your house tonight. Right now your store is featuring famous cheese recipes from South of the Border. Look for them at the dairy case. Or where you find the fixin's for tacos, enchiladas, tostadas. And as every cook knows, it's the cheese that makes the dish so bueno. Ole!



Hot Chili con Queso Dip.

Corn Chips con melted Cheddar.

Tacos con shredded Colby.

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It comes with a beater, whip, dough hook, and 4½ qt. stainless steel bowl. And its rugged 10-speed motor powers a host of available attachments, including a vegetable slicer, food grinder, sausage stuffer, citrus juicer, and colander and sieve set.

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KitchenAid® Food Preparer.

You'll say it's the best.

DARROW M. WA

Spread spiced cheese *on bread; top wi olives, onion, or other condimen*

Real Hungarian? No, spicy impostor

The classic Liptauer cheese, named aft the Hungarian province of its origin, traditionally made from sheep's mi and enlivened with paprika, onion, ar caraway seed. Our version, a spice cheese spread, is a facsimile. It's ea to make and calls for cream chee or, for fewer calories, cottage chee smoothed in the blender.

Either way, it makes an appealing app tizer to spread on cocktail breads. I clude condiment toppings such as tho shown above—sliced ripe olives, alfal sprouts, sliced red onion, crisp bac pieces, capers, and sliced dill pickle.

Spiced Cheese Spread with Condiment

Let 2 packages (8 oz. *each*) cream chee reach room temperature; smoothly be together with ¼ cup soft butter or ma garine and 1 tablespoon milk. (Or wh 1 pint large-curd cottage cheese in blender until smooth, starting and sto ping motor often to push cheese in blades; transfer to a bowl.)

Stir in 2 cloves garlic, minced or presse 1 teaspoon *each* caraway seed and p prika; 2 teaspoons Dijon mustard; ar ½ teaspoon anchovy paste (or 1 fine chopped anchovy fillet). Cover and ch at least 8 hours.

To serve, mound cheese on a plate (ser cottage cheese version in a bowl). Su round with small lettuce cups filled wi several condiments (suggestions abov Let guests spread cheese on cockta sized rye bread or pumpernickel, th top with condiments. Makes 2¼ cups.

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APRIL IN YOUR GARDEN:

This is the flat-out gardening month. But this is the go-slow water-watching garden year

s this issue of *Sunset* goes to press, ere's every indication that we're living rough the worst drought in Califor-a's recorded history. And it's a serious rought year in Nevada, Utah, and Col-rado as well. The problem is unprece-ented because all these areas have gher populations with greater average ater demands that ever before.

he solution—apart from heavy precipi-tion—may be water rationing or re-rictions on outside watering in cities om Monterey to Denver. Whether or ot you have felt the effects of drought et, this is the month to prepare for its npact on your garden.

mart gardeners will be setting priorities. hose in driest areas will have to decide hich plants to save—and tips on how save them are on page 126—while ose in less water-poor areas will have decide which plants they can afford grow.

Vith food prices rising (partly due to the rought, partly due to last year's cannery rike), you may decide to grow more egetables than flowers this summer.

s you read this guide, remember that many of its suggestions are especially written for this extra-dry year. When and if rains come and water reserves return to normal, it will be gardening much as usual, but with one important change: we may realize that no resource, least of all water, is unlimited.

Your lawn: to be or not to be

Typical suburban lawns account for the lion's share of outdoor residential watering. This year many gardeners may be letting them go and diverting tight supplies of water to more valuable or rewarding plants in the garden, such as rhododendrons and vegetables.

There are some ways to make any lawn-watering you do as effective as possible: Water during the morning—sunrise or earlier if possible—when there's no wind and evaporation is minimal. If your lawn has heavy soil where water tends to pool or run off instead of soaking in, water in short bursts—5 minutes on, 5 minutes off, 5 minutes on—so that water will have a chance to soak in.

To alleviate compaction, which also causes pooling and runoff, aerate the soil. You can buy a manual coring tool—it takes two plugs at a time—for less than $10. Or rent a coring machine for $6 to $8 an hour (there's usually a 2-hour minimum).

Mow high to prevent excessive evaporation and let clippings fall evenly over your lawn to act as a mulch; there's evidence that this can also reduce lawn ailments substantially.

Sunset's GARDEN GUIDE

They wrote the book on new cactus and succulents

If you haven't gotten excited about growing cactus and succulents yet, a tantalizing new book from the Cactus and Succulent Society of America might just do it.

Cacti and Succulents for the Amateur, by Charles Glass and Robert Foster (Abbey Garden Press, Box 3010, Santa Barbara 93105, 1976; $4.95, $5.25 in California), isn't just a rehash of the old standards. Most of the 200 photographs and accompanying text deal with recent introductions that are available through cactus specialty nurseries.

The 72-page book also includes sections on plant names, culture, habitat, propagation, and first aid for insect and disease problems. You can order the book direct from the publisher; prices given above include shipping.

Attention, Colorado gardening groups

Beginning right now, we are happy to print announcements of special garden events—shows, plant sales, garden tours—in Colorado, which is now included in *Sunset's* Central edition along with the northern half of California, Nevada, and

A host of bright new marguerites

Watch for these and similar new forms in nurseries. Plant them now; cool spring and fall weather bring on their most profuse bloom. Most of them flower on 4-foot bushes that are slightly less vigorous and ever-blooming than the old types. But 'Nancy Brackman' (also called 'Dwarf White') forms a roundish shrub 1 to 3 feet tall.

Dark eyes on 'Star Struck' and 'Flirtation' appear or vanish, apparently depending upon the weather. As double flowers open, pincushion centers loosen and color fades.

'Silver Anniversary' has finely cut, silvery green foliage. Most of the others have green, somewhat coarser leaves.

Sunset's GARDEN GUIDE

Utah. But we must have the necessary information at least two months before you want the notice to appear.

Fact sheets you send must include the name of the sponsoring agency, event, place (including street address), date, time, and any admission charge. Give the name, address, and telephone number of an appropriate contact, and mail the sheet to Garden Events, *Sunset Magazine*, Menlo Park, Calif. 94025.

To make peat usable, just add water

We like peat moss. Its excellent water retention and drainage make it an effective soil amendment for propagation as well as container and open-ground gardening. But when you buy it, peat is bone dry, and provides neither drainage nor water retention (see photograph below) until it's presoaked.

You can do that for small batches by putting a few inches of water into a bucket. Grab the biggest handful of peat you can hold, immerse it, and squeeze several times until the moss is soaked. Repeat the process until you have as much damp peat as you need.

If you use peat as a top dressing over large areas of seed, wet it with a steady, fine spray immediately after application. If you flood it or hose it down, the water will splash and float the peat away.

MARTHA WOODWARD

What happens *when you water dry peat moss: After 24 hours, water still hasn't penetrated. Peat must be presoaked to hold water*

JERRY FREDR

Young *onion plants go into soil with good drainage; they'll be harvestable for dry onions in three months*

Starting onions from onions

If you usually start onions from sets or seeds, you might try them from plants this year for a crop that's instantly visible and one that may not go to seed as quickly as onions started from large sets.

These onions are available from well-stocked nurseries, usually in bundles of 50 or more. The cost breaks down to about 2 cents each. Some nurseries will throw in a few more than the bundle is supposed to contain to make up for occasional small or damaged plants.

Planted in full sun early this month, these should be harvestable in July.

Put hybrid vigor to work this summer

Geneticists have long known that when you interbreed two varieties of the same kind of plant, the offspring is usually more vigorous than either parent. This first-generation offspring, called an F_1 hybrid (for "Filial, first generation"), is often unusually prolific, resistant to disease, and different in appearance from either parent.

In practical terms, if you buy seeds plants that are designated F_1, chanc are that they'll hold up better than nc hybrids as drought conditions force y to irrigate with soapy water or cut ba watering drastically.

This hybrid vigor costs slightly mo but it's generally worth it. A word caution: don't bother planting the see produced by F_1 plants; they almost variably revert back to the condition the grandparents.

Recycled water: how to use it, make your plants like it better

Gray water (recycled, often soapy hou hold water) is already being used plants in water-short areas. Experien shows that it can probably be used f at least two years on most plants wi out any serious side effects (the arti on page 126 will tell you which pla react badly to it).

The purer the gray water is, the bet for your plants. Water containing soa is preferable to that containing det gents, and mild detergents are easier your plants than heavy-duty kinds. U versity researchers recommend that y don't use gray water containing di washer detergents, chlorine blea boron, or softened water.

Usable gray water is often high in s

ium, which has the effect of binding ɔil particles together and making it ard for water, air, and roots to pene-ate. Counteract this by applying pow-ered gypsum (widely available and very expensive) or liquid soil conditioner ɔntaining calcium polysulfide. The cal-um ions in either product replace so-um ions and loosen up the soil again.

he use of urine as a moistener/fertil-er has had prominent press mention tely. Our advice is not to use it un-luted on your plants. While normal ine is sterile and is high in plant nu-ients, it's just too strong for many ants. It can be used effectively on com-ɔst piles, however, to replace nitrogen ed up by micro-organisms that break ɔwn plant materials.

rowing vegetables in drought

you usually grow more vegetables an you need, consider reducing your rden's size this year to save water. ɔu'll get more, healthier produce if you equately water a few plants than if u underwater many plants.

ıe consensus of a dozen seedsmen and dding plant growers who recently met *Sunset* was that eggplant (especially usky'), squash, and tomatoes need the least water of the commonly-grown vegetables. After these come corn, melons, peppers, and root vegetables such as beets, carrots, onions, and radishes. Last of all are leaf vegetables (most of which are cool-season crops anyway).

A general guideline is to water in most seedlings heavily with clear water. Thereafter, soak them whenever necessary with gray (recycled household) water or clear water. Around harvest time, water cucumbers about every four days to prevent them from becoming bitter.

This year plant slightly below ground level instead of in raised rows. Roots will dry out more slowly, and water won't drain out of the root zone.

Support your local compost bin

Heavy-duty, 4-foot foundation stakes (sold at building supply stores) can make solid supports for a compost bin. Pound them into the ground, being careful not to flange the top of the stake with the sledge. Use a plumb line to make certain they're vertical. Then slide 1-inch boards into the slots formed by opposing stakes (see photograph at right).

It takes eight stakes to make a square compost bin, six if you build your bin against a wall or stout fence. □

NORMAN A. PLATE

Inch-thick *boards slide into slotted foundation stakes to form sides of compost bin*

APRIL CHECK LIST: *Here are the month's important jobs*

☐ **Annuals.** In all but the coldest areas, April is a good month to sow seeds of summer annuals in open ground. In containers, of course, they will dry out more quickly.

☐ **Bulbs, corms, tubers.** Remove faded flowers from spring-flowering bulbs. If you want bulbs to produce again next year, continue to water until foliage starts to yellow; then cut to the ground. Summer-blooming bulbs such as callas, cannas, dahlias, tigridias, and tuberoses demand regular watering; gladiolus are more tolerant of drought.

☐ **Fruit trees.** Check fruit development around the end of the month. Thin when fruits reach fingernail size. Normally, apricots should be 2 to 4 inches apart, and peaches, big Japanese plums, and nectarines 4 to 6 inches apart, but this year you may want to thin even more to get bigger fruits with limited water. Drip irrigation is probably the most efficient way of watering fruit trees.

☐ **Mulching.** Put an organic mulch 3 inches deep around the base of perennials and trees and a shallower mulch around annual flowers and vegetables. It keeps roots cool, holds down weeds, and, most important, drastically reduces ground evaporation. Don't pile mulch around the main stem or trunk where it meets the ground; that could encourage crown rot. Some good organic mulches are shredded leaves, ground bark, and raw compost. Inorganic mulches, such as plastic sheeting, are best on low vegetable and flower crops.

☐ **Perennials.** Remember that even the drought-resistant kinds require water to get established. You'll do well to stick with dwarf and shade-loving types if you wish to plant perennials this year. Dwarfs need less water than their larger brothers, while shade-loving varieties don't need to be watered as often. This is also a profitable time to remove unwanted perennials.

☐ **Plant damagers.** Snails, slugs, and aphids proliferate as the weather warms and plants put on tender new growth. Bait for snails and slugs (or smash them as they forage at night), and brush aphids off plants with a paint brush. Or if you have lots of plants with lots of aphids, spray them with soapy water (4 teaspoons soap flakes per gallon of water).

☐ **Propagation.** April is a good month to make softwood cuttings of carnations, chrysanthemums, fuchsias, geraniums, and pelargoniums. Also divide succulents such as ice plant and sedum.

☐ **Pruning.** Thin and shape flowering fruit trees when bloom is over. Trim spring-flowering shrub branches just before buds burst, and let prunings bloom indoors. Prune deciduous shrubs after bloom. Shape azaleas, camellias, and rhododendrons. West of the Sierra, prune out any frost-damaged portions of tender plants.

☐ **Vegetables.** See the item above for guidelines on which ones to plant, how to water them.

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NORMAN A. PLA

A touch *of the tropics comes to a northern California garden. Herald's trumpet has deep, rich green leaves up to 9 inches long*

Tropical jungle at your house

Herald's trumpet or Easter lily (*Beaumontia grandiflora*) is a native of northern India and looks every inch the tropical jungle climber. Nevertheless it has been growing successfully in Southern California since the turn of the century. And the size and health of the plant you see here suggests that herald's trumpet could also be widely used in northern California.

The exact age of this particular vine is not known, but it has been growing for at least 10 years at a residence in Sunnyvale, California. During this time it has survived many frosts, including the deep freeze of December 8 to 14, 1972, when temperatures dropped into the low '20s.

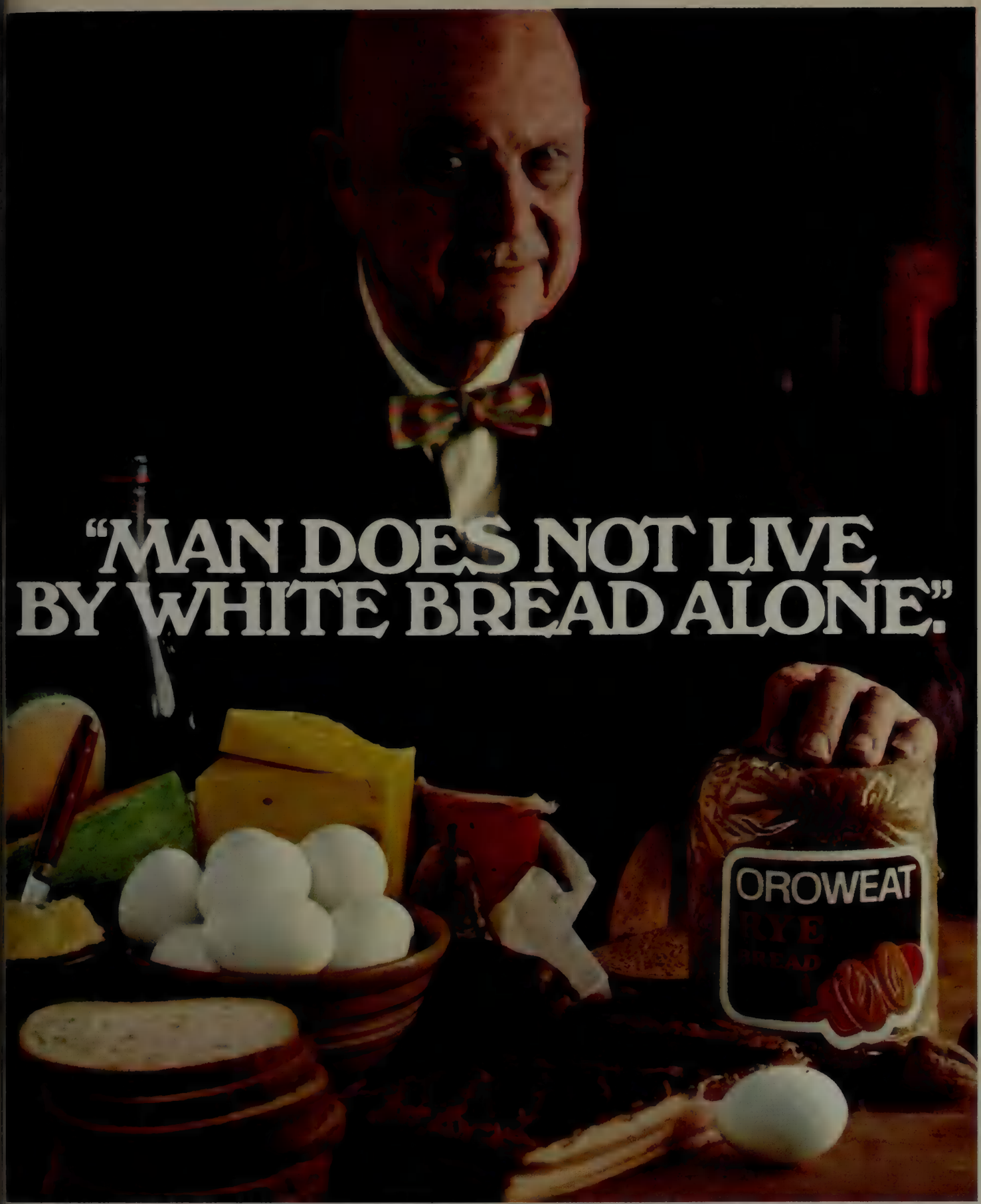
The plant suffered damage during that freeze, losing most of the upper growth that decorated the second-story eaves, but it made a strong comeback from older wood near the base. It is now one of the wonders of the neighborhood, blooming throughout the late spring and summer—with fragrant flowers that grow in clusters over a foot wide.

The foliage makes an appropriate background. The deep green, heavily veined, oval to roundish leaves are 6 to 9 inches long and 4 inches wide. Plants are evergreen, but foliage can look ragged after prolonged cold or unusually heavy winds.

Woody stems lean, twine, and weave into a heavy, tangled structure as much as 30 feet high and equally wide. Plants look better and are more manageable if thinned and shaped as they develop. They look their best as eyebrows across a roof line or wall, or as giant espaliers. Thin and shape immediately after bloom, keeping a good quantity of 2 and 3-year-old wood; these mature branches will bear next year's flowers.

White flowers *veined with green are 5 inches long, 3 inches across, fragrant*

With the long growing season ahead, now is a good time to plant. Your nursery can order herald's trumpet for you if you can't find it. Plant where there's rich soil and ample sun. □



Here's James Beard, dean of American cookery on his favorite subject. For more on bread, read his latest book, "Beard on Bread".

Bread, cheese and wine, three of our greatest foods, have kept body and soul together over long periods of time. And I can't think of a better combination.

When I'm in the mood for cheese, for instance, there's nothing I like better than a ripe brie on buttered, crusty slices of Oroweat Russian Rye.

And for a wine-tasting, try wedges of toasted Oroweat Schwarzwalder Rye in a cheese fondue.

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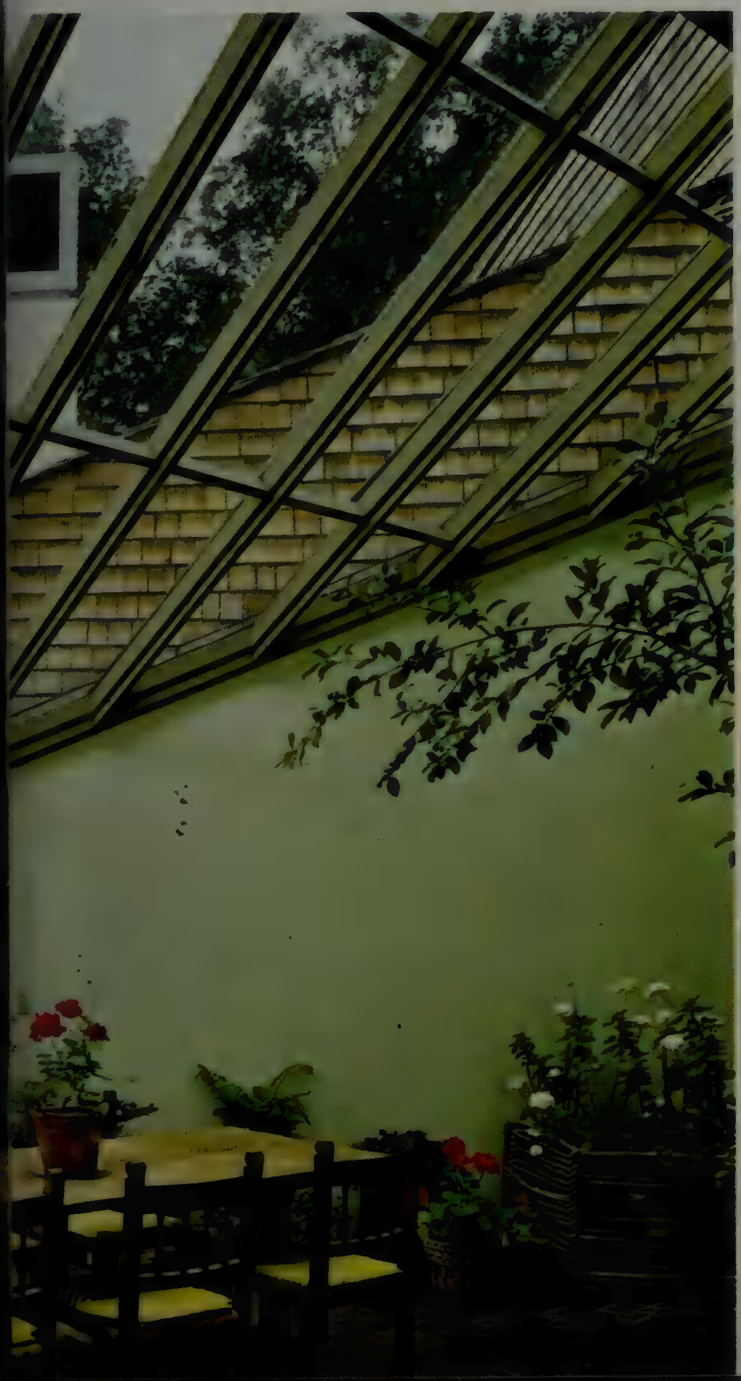

BANK OF AMERICA N T & S A

DAVID STUBBS
Jicama tuber *from the garden of Corinne Southcott in Arroyo Grande, California*

Can you grow jicama in your vegetable garden? Depending on where you live the answer ranges from a resounding yes to a murmurous maybe. Last April we told where to buy seed and asked readers to tell us of their experiences. Thirty readers answered, and on the basis of their reports we'll say that you can almost certainly grow these crisp, flavorful tubers in Southern California and the desert. You may be able to grow them in northern California.

The plant that produces the edible tuber (*Pachyrrhizus erosus*) is a native of the warmer parts of Mexico and the Central American countries; it is no wonder, therefore, that it grows very well in Hawaii, where it is often called chop suey yam or chop suey potato.

The word from Hawaii

Four correspondents from Hawaii wrote about their success in growing it. They are in agreement about planting it between mid-May and mid-June, but no earlier. Planted sooner, it runs to seed and fails to produce tubers.

Most of them agree on giving plants rich soil and regular feeding, but there are two opinions on plant training: One writer favors pinching back the vining stalks so that they do not exceed a foot in height, while another lets the vines ramble about freely. A third doesn't even plant it; she merely sets volunteer seedlings about the garden for slope erosion control and eventually for eating. They thrive in sun or light shade.

A fourth mentions that the University of Hawaii Agricultural Experiment Station wrote about these tubers as far back as 1929 in a bulletin on Oriental vegetables. Obviously it is an old Hawaiian standby, and it is thought of as being Oriental rather than Mexican.

Arizona reports—soil sí, rock no

Joan Keltner sowed a single seed in her Phoenix garden in January and harvested a fine tuber at Christmas. Mrs. Keltner reports that the plant had only the most casual attention, although it grew in reasonably good cotton field soil. Lorraine Christo's jicamas didn't do as well in Morenci, northeast of Safford at 4,200 feet in elevation. Tubers from her rocky, unimproved soil in a new garden were small and soft; she thinks that they will be better after compost and cultivation improve the soil.

Almost everybody wins in Southern California

Many success stories came from Southern California.

One experimenter states unequivoca that jicama does not do well near t ocean in Long Beach. Other garden near the coast did better, but they we not really in the fog belt. Corinne Sou cott's plantings in Arroyo Grande a successful, with the better of two gro ing in sandy soil on a south-facing slo

Adrian Wenner grew a 4 to 5-pound on a sheltered southern slope in t Santa Barbara Riviera. Caleb Cur grew tubers with a 6-inch diameter Rancho Santa Fe.

Some other successful growers we Marian Beck in Brea, the Glikbarg fa ily in Los Angeles, James Vacek Orange, and Norma and Norman Am of Thousand Oaks.

The fullest account of how to grow cama came from Arthur Edgerton of E condido, in northern San Diego Coun He learned the following technique fro a Mexican employee who had garden in Michoacán: Plant seeds in the grou as soon as it warms up in April or M Make flat ridges 24 inches wide sep rated by furrows 8 inches deep. Irrig the growing plants by flooding furro until water soaks across the ridge.

Plant seeds on the edges of the rid one row on either side. Punch holes inches deep and 4 inches apart with finger, drop a seed in each hole, a press holes closed. When plants are tablished, thin to 8 to 12 inches.

There's no need to stake the vines. F tilize monthly with a pinch of high-nit gen fertilizer poked into the ground b side each plant. Tubers reach 1 to pounds (larger in hot summers) in A gust or September if flowers are pinch off; they can stay in the ground fo long time without deteriorating. But sure to dig tubers if frost threatens. Th rot quickly if frosted.

Northern California—still hopeful

No one in northern California report total success. George Hyde in Chico g one tuber from eight plants. Ruth Sa met in San Jose raised some golf-ba size tubers. Don Sweatt raised some fi size tubers in Roseville but didn't c them before frost rotted them. Nan Herb grew some small tubers in pots her greenhouse in Lafayette.

All who tried plants felt that they gr very slowly early in the season and ju didn't have time to catch up. There some evidence that in higher latitudes t greater day length interferes with grow and the shorter days in autumn cool too soon. But if you like jicama, i worth trying, even in northern Calif nia. If a correspondent from Massach setts can grow some on Cape Cod, sure we can do as well!

Seed is available from Horticultural E terprises, Box 34082, Dallas 75234, f $1.25 including postage and handling.

Reader luck with jicama? Can't miss in Southern California, but chancy in Northern California

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AGA American Gas Association

Busy month: many shows, sales, lectures, exhibits, tours, seminars

or garden events in Monterey and nta Clara counties, see page 285.

akland. April 2 and 3. Exhibit by the iji Bonsai Club. Place: Lakeside Park arden Center, 666 Bellevue Ave. ours: 10 to 7 Saturday; 10 to 5 Sun- . Free.

akland. April 2 and 3. Annual dahlia ot sale by the East Bay Dahlia Society. ace: Rear of Lakeside Park Garden enter. Hours: 9 to 4:30 both days. Free.

icramento. April 2 and 3. Show pre- nted by the American Bonsai Associa- on. Place: Shepard Garden and Art enter; 3330 McKinley Blvd. Hours: 1 6 Saturday; noon to 5 Sunday. Free.

avis. April 6 through June 1. Lecture ries on small farming sponsored by e University of California Extension, avis. Place: Orchard Room, Mini-cen- r, Hutchison Dr., campus. Hours: 7 to) P.M. Fee: $50 for the series; $7.50 r individual lecture. For necessary eregistration, telephone UCD Exten- on, (916) 752-0880.

ayward. April 9. Show of early iris osted by the Sydney B. Mitchell Iris ociety and Region 14, American Iris ociety. Place: Southland Mall. Hours: 30 to 5:30. Free.

icramento. April 9 and 10. Capital City frican Violet Society show. Place: epard Garden and Art Center. Hours: to 8 Saturday; 10 to 6 Sunday. Free.

n Francisco. Free horticultural classes ith Stephen Tollefson, sponsored by e San Francisco Community College istrict. *April 12:* vegetable gardening. *pril 14:* garden skills. Both courses are esented in conjunction with the San rancisco Community Gardens Project. lace: Greenhouse, Laguna Honda Hos- tal, 375 Laguna Honda Blvd. Hours: to 12 both days. *April 16:* basic land- aping. Place: Strybing Arboretum - *unset Magazine* Home Demonstration ardens, Golden Gate Park. Hours:) A.M. to 1 P.M.

an Francisco. April 12 and 19. Last in e series of Tuesday lectures sponsored the Strybing Arboretum Society. lace: Hall of Flowers, Golden Gate ark. For further details, telephone 15) 661-0822.

avis. April 16. Seminar on small tree rm management sponsored by the Uni- rsity of California Extension, Davis. lace: Room 26, Wellman Hall, campus. ours: 9 to 5. Fee: $25. For necessary preregistration, telephone UCD Extension, (916) 752-0880.

Exeter. April 16. Twenty-fifth annual community flower show presented by the Exeter Garden Club. Place: Memorial Building, 324 N. Kaweah. Hours: 2:30 to 8:30. Free.

San Mateo. April 16. Beresford Garden Club plant sale. Place: San Mateo Garden Center, 605 Parkside Way, between 26th and 27th avenues just west of Alameda de las Pulgas. Hours: 10:30 to 3.

Fresno. April 16 and 17. Fifth annual show by the Fresno Bonsai Society. Place: Ahwahnee Junior High School, Escalon and First streets. Hours: 10 to 5 Saturday; 10 to 4 Sunday. Free.

Modesto. April 16 and 17. Central Valley Iris Society show. Place: 1500 J St. Hours: 2 to 5 Saturday; 10 to 5 Sunday. Free.

Stockton. April 16 and 17. Annual California wildflower show and art exhibit at the San Joaquin County Historical Museum, 11793 N. Micke Grove Rd. off U.S. Highway 99 between Stockton and Lodi. Hours: 11 to 5 Saturday; 10 to 5 Sunday. Free.

Tulare. April 16 and 17. Iris show presented by the Sequoia Iris Society in conjunction with the Tulare Garden Club show. Place: Memorial Hall. Hours: 2 to 5 Saturday; 10 to 5 Sunday. Admission: Free.

Fresno. April 17. Annual Fresno Iris Society show. Place: Fashion Fair Mall, First and Shaw avenues. Hours: noon to 5. Free.

Hanford. April 19. Show presented by the Sequoia Iris Society. Place: Civic Auditorium. Hours: 1 to 8. Donation $1.

San Francisco. April 19 and 20. Plant sale presented by the San Francisco Garden Club. Place: Ballroom, 2007 Franklin St. Hours: 11 to 4 Tuesday; 10 to 2 Wednesday. Free.

San Rafael. April 20. Demonstration of mass floral arrangements by Mrs. Herbert Farwell sponsored by the Peacock Gap Garden Club. Place: Peacock Gap Golf and Country Club, 333 Biscayne Place. Coffee at 9:30 A.M.; program 10:30 to noon. Donation: $1.50.

San Francisco. April 23. Plant sale sponsored by the Strybing Arboretum Society. Place: Hall of Flowers. Hours: 10 to 3. (Preview for members: April 22 from 5 to 7 P.M.; memberships will be for sale

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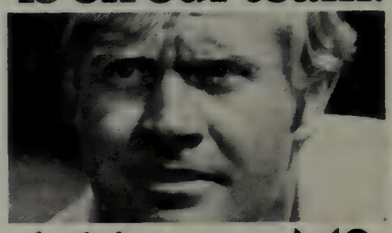

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Sacramento, CA 95825

at the door for $15 each.)

Santa Rosa. April 23. Plant show a sale by the Men's Garden Club of Sa Rosa. Place: Mall, Coddington Shopp Center. Hours: 9 to 5. Donations cepted for plants on display.

Sacramento. April 24. Annual show the Sacramento Rose Society. Pla Shepard Art and Garden Center. Hou 1 to 6. Free.

Stockton. April 24. Twenty-fourth nual show by the Stockton Rose Socie Place: Memorial Building, Micke Gro Park. Hours: 1 to 5. Free.

Boonville. April 24 and 25. Anders Valley Wildflower Show sponsored the Garden Section of the Unity Cl Place: Mendocino County Fairgroun Hours: 10 to 5 both days. Free.

Santa Rosa. April 29 and 30. Ann flower show presented by the Santa R Garden Club. Place: Luther Burba Art and Garden Center, 2050 Yul Ave. Hours: 1 to 8 Friday; 10 to 5 S urday. Free.

Davis. April 30. Seminar on irrigati (including drip irrigation) sponsored the University of California Extensi Davis. Place: Room 115, Wellman H campus. Hours: 9 to 5. Fee: $25. F necessary preregistration, telepho UCD Extension, (916) 752-0880.

Redding. April 30. Show presented the Cascade Wonderland Iris Socie Place: Centennial Plaza at Downto Redding Mall. Hours: 1:30 to 5. Adm sion: free.

Stockton. April 30. Annual show by t Central Valley Rose Society. Pla Ethan Allen Gallery, Georgeto Manor, March Lane and Pacific A Hours: noon to 5. Free.

Concord. April 30 and May 1. Sh presented by the Mount Diablo Iris S ciety. Place: Mall, Sun Valley Shoppi Center. Hours: 9:30 to 5 Saturday; no to 5 Sunday. Free.

Sacramento. April 30 and May 1. Seve teenth annual show presented by t Sacramento Cactus and Succulent Soc ety. Place: Shepard Garden and A Center. Hours: 2 to 8 Saturday; 10 to Sunday. Free.

San Mateo. April 30 and May 1. Thirt first annual spring rose show by the S Mateo County Rose Society. Place: S curity Pacific Bank, Fifth Ave. and Camino Real. Hours: 2 to 8 Saturda 10 to 5 Sunday. Free.

San Francisco. April 30, May 1 and Fifty-fourth annual show of the Califo nia Spring Blossom and Wildflower A sociation. Place: Hall of Flower Golden Gate Park. Hours: noon to Saturday; 10 to 5 Sunday; 10 to 3:4 Monday. Free.

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To stop rust use Ferrothane.™

Deck over hard clay hillside *makes space for intensive flower and vegetable gardening as well as entertaining and just sitting in the sun. All plantings are in containers. The box above holds marigolds, patio tomatoes, and sweet alyssum*

Deck garden in water-scarce Marin makes it with gray water

Six planter boxes built into a new hillside deck were all Eugene and Joan Jacks needed for a successful vegetable and flower garden in Marin County, California, during last summer's drought. The boxes, built on three sides of the 20 by 27-foot deck, provide about 17 square feet of planting space—enough for eight kinds of vegetables, three kinds of perennials, and two annuals. And the Jackses were able to grow these while living on a ration-sized quantity of water (34 gallons per person per day).

Plants were set out in April from both nursery stock and seedlings started indoors. All were watered with recycled shower water. It was collected in an upstairs bathtub and siphoned to the planters through a garden hose. The gray water didn't seem to affect any of the plants' health or the vegetables' flavor.

Deck and boxes were built to compensate for the steep, dry hillside land around the house; it had been difficult to cultivate and maintain, and wasn't a good place for outdoor entertaining or just lying in the sun. Extending southeast from the house, the deck and boxes get full sun most of the day.

Set against the south wall of the house, the largest planter box is 1 foot wide, 1[illegible] inches deep, and 10 feet long. 'Kentucky Wonder' pole beans were interplanted with the box's permanent planting of star jasmine. The beans ran up strings to a trellis that joins the house 8 feet above the deck, and proved to be the most successful crop.

Other planter boxes are 18 inches wide and 16 or 23 inches deep, depending on which part of the split-level deck they're on (see photograph at left above). Lengths vary.

On the west side of the deck are two boxes, 28 and 42 inches long. Planted with yellow squash, zucchini, and marigolds, they bore the brunt of winds whipping out of the valley below. Though the marigolds didn't seem to be affected, the zucchini and yellow squash plants produced small but edible fruits.

Along the east side of the deck are three planters, 28, 57, and 66 inches long. They were intensively planted with carrots, rhubarb chard, lemon cucumbers, and patio tomatoes mixed in with sweet alyssum, lobelia, marguerites, and also marigolds.

Beneath the boxes the decking was creosoted, as each box was built, to minimize water damage. To keep water from staining the planters' wood, the sides and bottoms were lined with polyethylene sheeting; it has also served to reduce evaporation and thus further conserve water. Holes in the bottom of the plastic allow drainage.

A rich, light planting mix fills all the boxes. The Jackses fed the plants every two weeks or so with a solution of fish emulsion. □

Built-in *vegetable planter boxes can double as flower-filled boundaries for deck*

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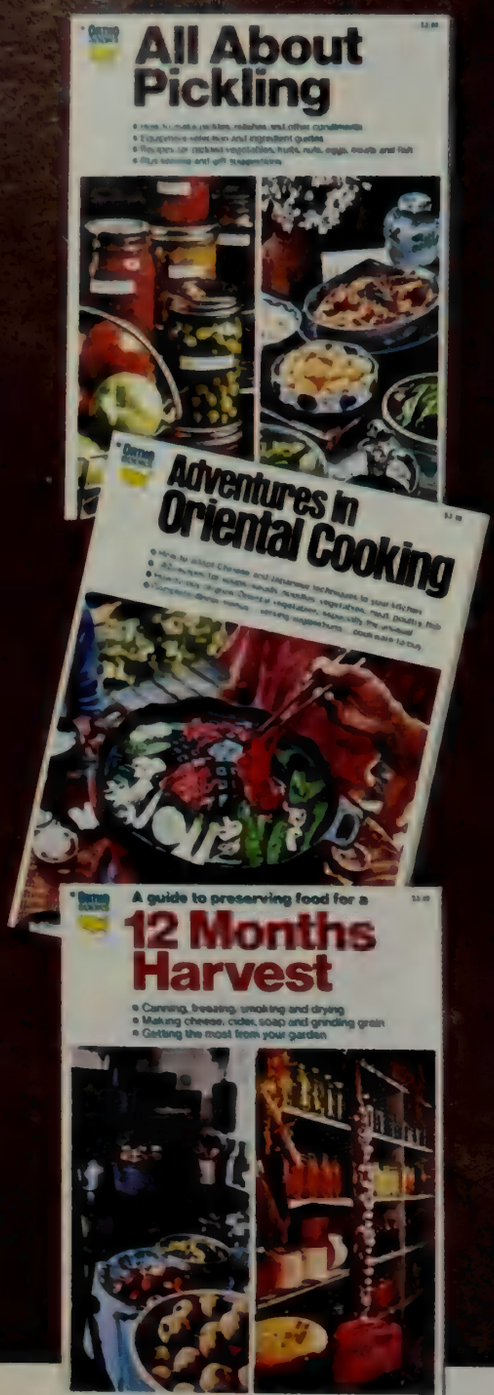

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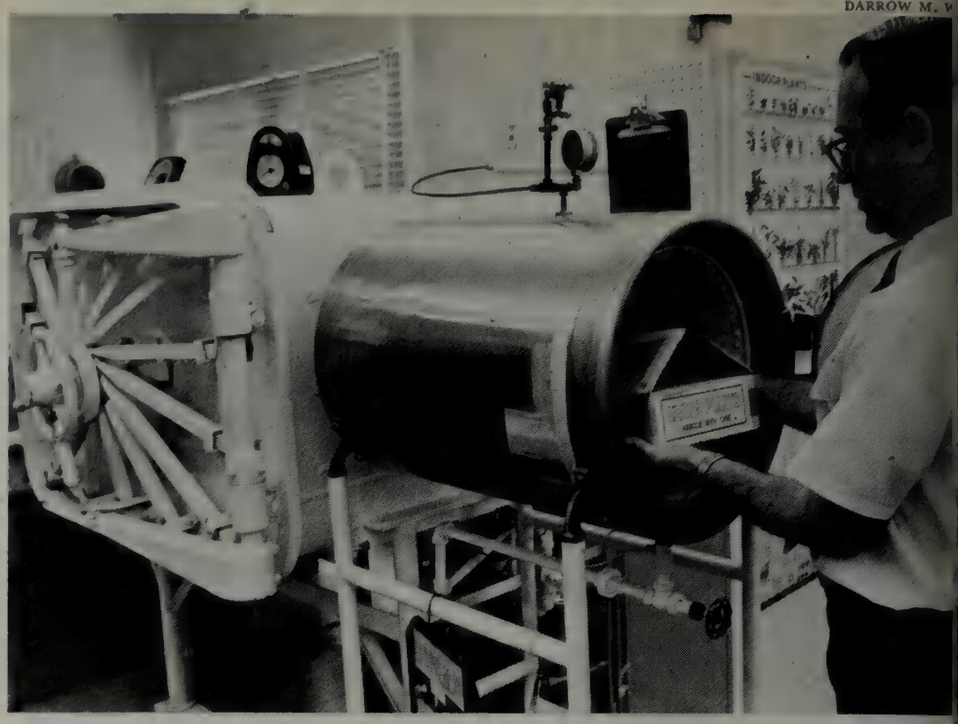


At an inspection station, *a box of orchids gets placed in a cylindrical fumigation tank for treatment with methyl bromide*

What's involved in bringing in plants from abroad? Quite a lot

You're traveling in a foreign country and you see a plant you'd love to bring home. Is it possible?

Maybe. On your return, you'll have to declare all plants and plant materials to U.S. Customs and present them for clearance by U.S. Department of Agriculture inspectors. The rules they follow are spelled out for you in a booklet titled *Travelers' Tips,* available free from U.S.D.A., Federal Building, Hyattsville, Md. 20782.

Here are some guidelines, in brief:

Many plants, including all plants in soil, are barred outright. But a large number of others can be brought back, with a permit you can request (see right), and subject to an inspector's approval.

Most kinds of dried plants, flowers, and leaves for herbariums or decorative use are admitted without restriction.

Seeds of flowers, vegetables, shrubs, and trees are generally admitted, but seeds of bamboo, gooseberry, mahonia, and wheat are among those refused entry. Most flower bulbs are admitted, but anemone bulbs from Germany are not, nor are gladiolus bulbs from Africa.

If you expect you'll want to bring back a fruit, vegetable, plant, or plant part (such as a cutting or seed) for growing, first check *Travelers' Tips* to see if that kind of plant is prohibited. If it is write for a permit *before leaving ho* send your request to the Permit Uni the Maryland address. To allow for coveries you may make while travel ask for a permit to cover an indefi number and variety of plants. The mit is free and is valid for five years

To meet entry standards, the live p or cutting must be free of soil packed in approved material, such moss, styrene foam, wood shavings. paper. It should be labeled with its c plete botanical name (genus and spec and have a certificate from the ph pathological official of the country origin. (Often the seller manages th details.)

After inspection, the plant may be stroyed if entry is refused, or sent e where for further inspection and sible treatment before being eventu released to you. More likely, a hea plant will be cleared for entry and turned to you on the spot.

You may prefer to mail restricted pl or plant materials directly to one of inspection stations; addresses are gi in *Travelers' Tips.* Ask for mailing la when you apply for a permit. A clearance, your plants will be forwar to you without additional cost.

SUN

Jacobsen Super Bagger.™ Fewer stops. Easy to handle. Faster mowing.

he big 3-bushel grass tcher means you stop less empty. Between-the-ndles location makes even ght-spot trimming easy. ght and maneuverable, o. It all adds up to faster, sier mowing.

Easier (and less frequent) emptying.

he Super Bagger features a huge apacity grass catcher—3 bushels. his means fewer messy, annoying, me-consuming stops to empty. nd fewer stops means you finish ooner.

And emptying is simple. There re no snaps or zippers to wrestle ith. You just grab the handles nd pull up.

To dump the clippings, you press a button which causes the 'mouth' of the bag to open wide, and the clippings pour out freely.

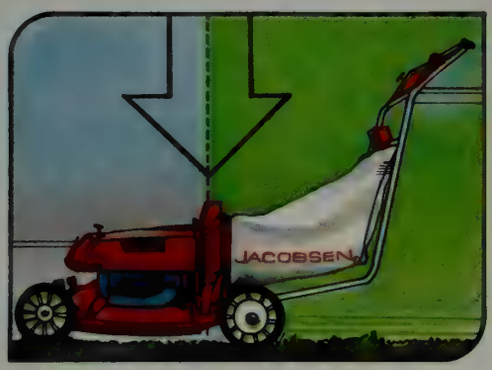
The advantages of a rear bag.

As you can see, the grass catcher is in the back, between the handles. This makes the Super Bagger easy to maneuver, even in tight spots, because you don't have to approach every shrub, tree branch, or fence as if it's a major obstacle to be cautiously navigated around.

And with no bag sticking out on the side, you can trim close on the right or left as well as in front.

A matter of balance.

Many mowers with rear grass catchers are prone to balancing problems. As the bag fills, the weight distribution shifts to the rear, causing the mower to tip back. When this happens, you get a 'scalloping' cut—unattractive crescents where the grass is cut much shorter.



The Jacobsen Super Bagger overcomes this problem by having the front of the bag set forward of the rear wheels, creating a balanced weight distribution even when the bag is full.

If mowing is a family affair...

With its lightweight construction and nearly effortless handling, the Super Bagger is an excellent choice for households where the mowing chores are shared.

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weber® sale ends April 30.

ALEX BA

Nearly hidden *inside bunker of railroad ties and mounded earth, potting area has a shelf where owne stands to work; garbage cans hold garden supplies. In view from stree (above), planted beds camouflage it*

Their garden work center is a bunker of railroad ties

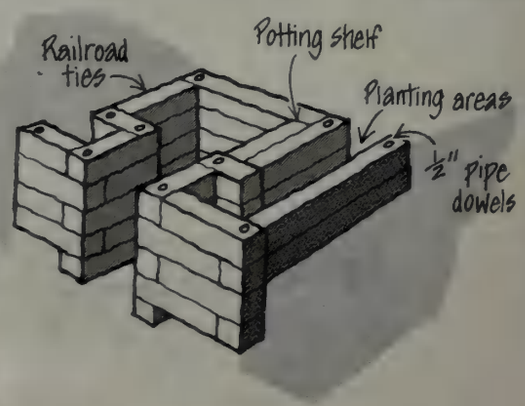
This unusual work center is right in the front yard, yet no one would guess it's there. Like a bunker, it's set down in the ground and planting beds are mounded around it.

Jerry and Mary Davids of Manhattan Beach, California, had no other spot for a potting area on their narrow beach lot, so they asked landscape architect Howard Olsen of West Los Angeles to design one for their small front yard. His answer was to dig 4 feet below the level of the highest planting bed and install a work center there.

Railroad ties doweled together with ½-inch pipe form retaining walls and define the 6 by 6-foot area. This allows adequate space for one person to work at the good-sized potting shelf, a 2 by inch plank. There is also room for 50-gallon plastic garbage cans that k soil mix, fertilizers, and garden tools

One wall of ties doubles back, par with the potting shelf (see sketch). create a raised bed. Here the Davi keep annuals blooming wildly to c plete the camouflage. One of their ne bors was astounded to see Mr. Da waist-deep in his garden one mornin he had walked by for a year with noticing the work center.

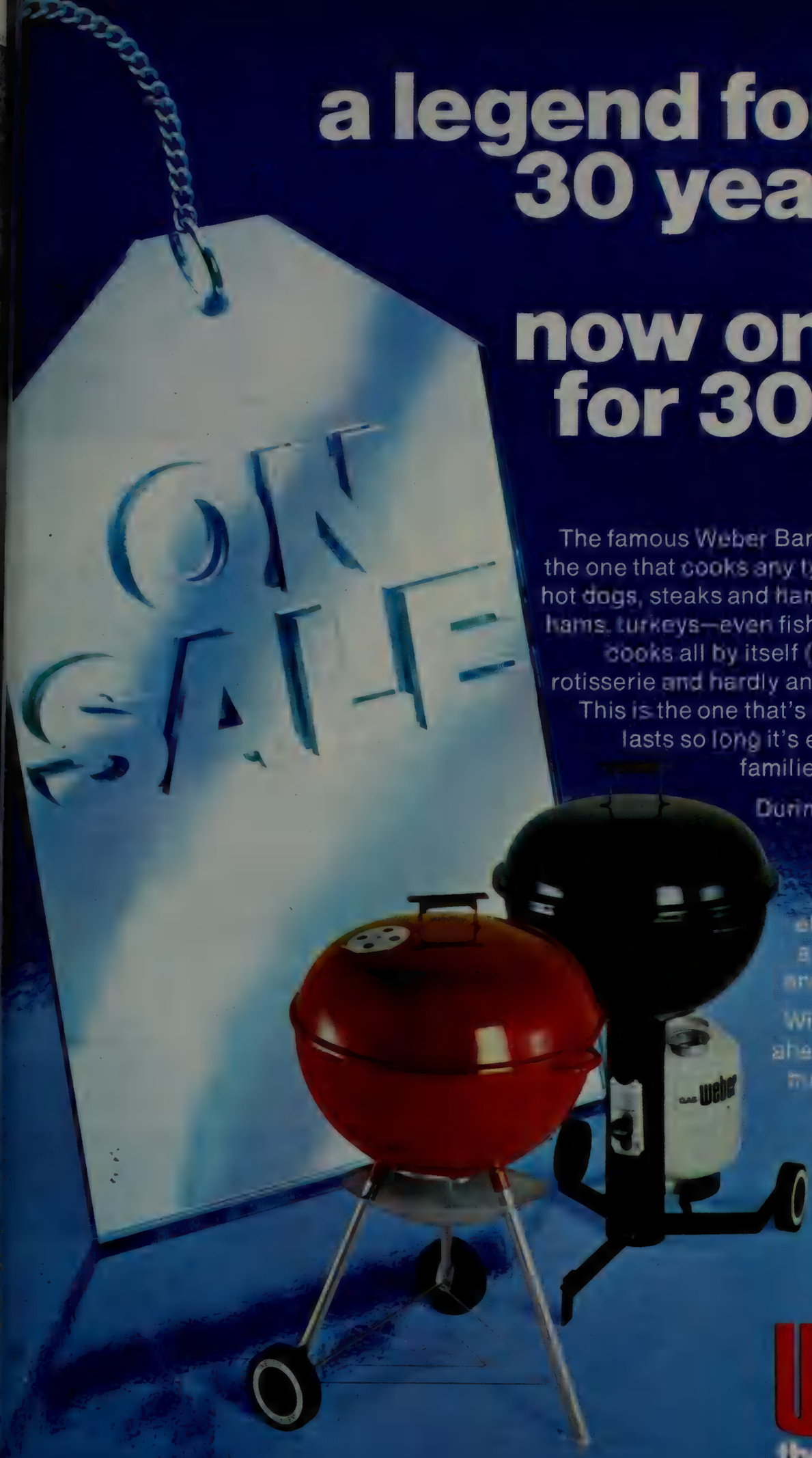
Sandy soil keeps drainage from bein problem. Other soil conditions may quire you to install drainage tiles to c off standing water. You may also wan cover the floor area with gravel.



Rugged *old railroad ties interlocked by pipe dowels prevent an soil slippage. Front sidewalk is off to right of diagram, parallel with the potting shelf*

a legend for 30 years

now on sale for 30 days



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During the month of April, you can get a Weber Kettle on sale. In charcoal, gas or electric models and in a wide choice of sizes and colors.

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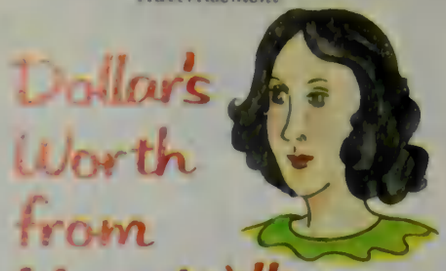
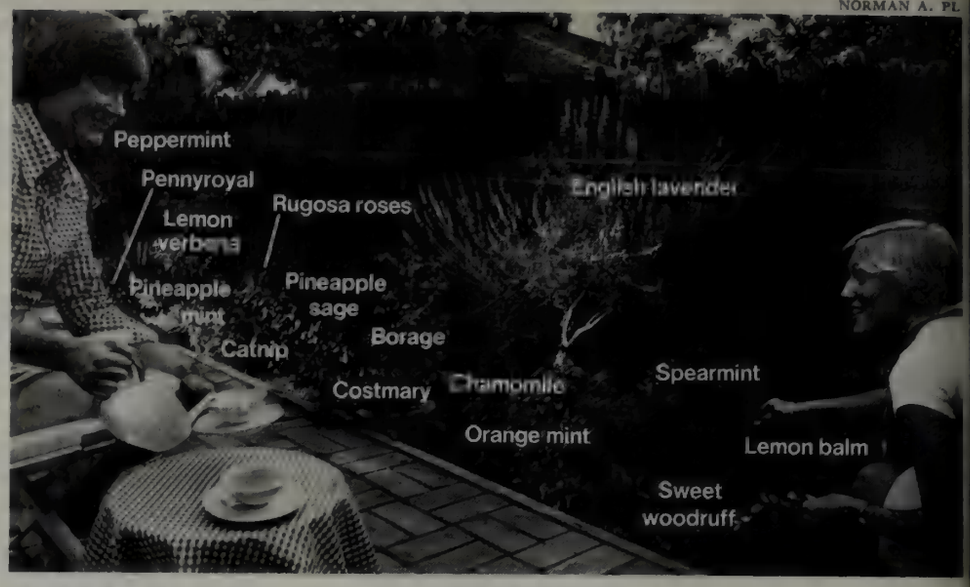


Warmer weather is just around the corner, and Spring is a perfect time to treat your lips to a luscious shine with **Lip Quencher®** by **Chap Stick®**. Packed with moisturizers and creamy emollients, Lip Quencher moisturizing lipstick does more than just look pretty—it softens, smooths and makes lips as dewy fresh as a spring morning. Lip Quencher comes in 24 fashion shades; find one just right for you and splash one on.

Sergeant's®, the pet care people, have a free offer for your dog—a rawhide bone worth $1.59. (If you're a cat lover, you can choose two free toys worth 79¢ each.) Simply mail the foil envelope from a **Sentry® IV Collar** to Sergeant's, Dept. MM, P.O. Box 11211, Richmond, Va. 23230. Buy a Sentry IV Collar to protect your family from **Fleafestation™** and you'll be doing something extra nice for your pet and your family. Get full details at your local pet supply store. Offer will expire December 31, 1977.

Few people realize that their pets can easily be exposed to a serious and quite contagious problem—worms. They can, for example, even pass to a pup from its mother. So **Sergeant's®** has a full line of specific products to eliminate this worry, easily—at home. **Worm-Away® Capsules** will help eliminate large roundworms. **Sure Shot® Capsules** and **Puppy Capsules** help rid pets of hookworms. So, get help for your pet's worming problems from Sergeant's, the pet care people.

NORMAN A. PL



Border plants *by kitchen patio came mostly from 2-inch pots a year ago, produced fistfuls of leaves from June to November*

From this herb tea garden... flavors barely perceptible to overpowering

Herbs for tea are easy to pick and blend from this 2-by-15-foot planting. The owners just gather a handful of leaves (or in some cases, flowers or fruit), cover them with boiling water, and steep 5 to 10 minutes. Or they add some to fruit punch or wine, and chill overnight.

Flavors vary from barely perceptible to overpowering. A sniff and a nibble will guide you in how much to use. The standard amount for one cup of tea is 2 teaspoons fresh material or 1 teaspoon dried—or a fistful for a pot. Use more to strengthen flavor.

Most herbal teas are subtle. Chief appeals are fragrance, a mild flavor, and often a lovely yellow or green color.

Most tea-making plants thrive with minimal water and fertilizer, in full sun. Since they need little space, and are convenient near the kitchen, you might find them easy to grow with recycled (soap free) kitchen water. In cold-winter areas, grow tender herbs as annuals, or give them cover to protect from frost.

If you set out plants from 2-inch pots now, or sow seeds of annual kinds, you should have an abundance for picking by June. For a year-round supply, you'll have to dry some, since most herbs are dormant in winter. Just cut leaves or other fragrant parts when they are most abundant. Lay them in single layers in a warm, shady, well-ventilated place until dry enough to store airtight. Here's a guide to the plants shown above. You'll also find many others at nurseries.

Borage. Leaf flavor undistinctive, but cooling in punch; blue, star-shaped flowers decorative in drinks or on tea cakes. This annual grows fast from seed.

Catnip. Potent, bitter. More popular with cats than with most tea drinkers.

Chamomile. Flower heads make a deep yellow tea with a sweet pineapple fragranc and flavor. Annual *Matricaria recutita* (formerly *M. chamomilla*) is more prolifi than the perennial, *Anthemis nobilis*.

Costmary. Leaves make a bland tea with spicy-mint fragrance. Best in blends.

Lavender. Flower heads make a potent brew not agreeable to many. Commonly used in small quantities in blends.

Lemon balm. Leaves make a fragrant lemony tea almost everyone likes. Use it alone, in blends, or in fruit punch. Like its relatives the mints, it thrives in moist, rich soil in partial shade, but does reasonably well under poorer conditions.

Lemon verbena. Leaves give a strong lem flavor and fragrance to tea or punch; a favorite alone or with mint.

Mints. Use leaves of any, alone or in blends. Names sometimes indicate flavor: peppermint, pineapple mint (mildly swee fruity), spearmint. Orange mint doesn't taste or look orange; it's just an especially potent mint, a favorite of many tea lovers. Pennyroyal is a low, creeping mint that's also quite strong.

Pineapple sage. Leaves give a strong pineapple fragrance; scarlet flowers add color and sweetness. Mild flavor makes it best in blends or fruit drinks.

Rugosa roses. Crushed ripe red fruits (hips of rugosa species make a tart rose-colored tea high in vitamin C. Use it alone, or blended with mint, or to thin sweet juices such as red grape juice. Two plants and several years' growth are needed for hips.

Sweet woodruff. Soak leafy stems in white wine or apple juice to add a musky, spicy quality. Also used in tea blends, rarely alone. Needs shade, plenty of water.

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PETER O. WHIT

Yellow blooms *of succulent dudleya wave above low-growing dwarf coyote b*

They get by with little water

Two very different drought-tole plants that look good together are culent *Dudleya caespitosa* and the e green shrub called dwarf coyote br (*Baccharis pilularis*). Both are na along the central California coast wh fogs usually provide wild plants their only moisture during long dry riods from late spring to fall.

Here you see dudleya and dwarf co brush thriving on a sunny, west-fac slope in a garden 12 miles inlan where summer temperatures often above 90°. This well-established pl ing gets watered only about onc month during hot weather.

Last August, when we took the ph graph, the dudleya's creamy yellow fl ers were blooming on slender, red stems 12 to 18 inches above clump fleshy, bluish green leaves (they're o tipped with rosy red in cooler month

A dense mat of dwarf coyote brush rounds the succulents. This reliable 2-foot-high shrub, 6 feet wide or m is covered with closely set, tooth bright green, ½-inch-long leaves. keep the plants low and compact, pr once a year in late winter or early sp before new growth appears. Fen plants produce fluffy, wind-blown se that can become messy, but dwarf c ote brush plants sold in most nurse are cutting-grown from male plants.

lass Hill, Newport Beach, California; Developer: John D. Lusk

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Dense spikes *of mignonette blossoms open with surprising fragrance*

It's dowdy, it's weedy, but also it's *fragrant*

Mignonette isn't very pretty. The plant is undistinguished—even weedy. The flowers are dowdy, having neither bright color nor attractive form. And it's a short-lived annual. Why even mention it?

Fragrance is the answer. The sweet smell of its flowers made it a favorite of Victorian gardeners, who cut the blossoms to sweeten mixed bouquets or used living plants to perfume conservatories and gardens. If modern gardeners knew it, they might take it up along with other Victoriana.

Though the name mignonette is French for "little darling," the French call it *réséda odorant,* after its Latin name *Reseda odorata,* meaning fragrant soother or calmer. (A less flattering English name is bastard-rocket.)

Plants are erect at first, later sprawling, light green in leaf color, and 12 to 16 inches tall. Flowers appear on leafy spikes; in the commonest kind (usually sold as Common Sweet Scented), individual flowers are ½ inch wide and greenish cream in color with yellow or orange anthers. Although the petals are deeply fringed, the flowers are so unshowy that you will probably smell them before you see them.

The fragrance is difficult to define, but it is sweet and strong, with elements of violet, freesia, and raspberry.

Mignonette is easy to grow if you
member that young plants resent b
moved. Sow seed where you want p
to bloom any time after danger of
has passed, and make successive sow
if you want a long season of fragra
Plant in ordinary good garden soil in
or light shade; light shade is prefer
in hot-summer climates.

For an earlier start, scatter several s
in a 5 to 6-inch pot of rich, fast-drai
potting soil and thin to four or
plants to a pot. When they are sev
inches tall, tap out soil and root n
and plant as a unit in the garden.

For portable fragrance, let mignon
grow on to blooming stage in the p
Or thin to one plant per pot if you w
like to grow it to maximum size. K
fading flowers pinched off to force
duction of more spikes and prevent
appearance of unattractive seed caps

If you can't find seed on seed racks
a mail-order catalog. Four that
mignonette are W. Atlee Burpee
Warminster, Pa. 18974; J. L. Hud
Box 1058, Redwood City, Calif. 94
Geo. W. Park Seed Co., Box 31, Gr
wood, S.C. 29647; and Thompson
Morgan, 401 Kennedy Blvd., So
dale, N.J. 08083.

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It probably won't grow coffee for you but it is good looking

STEVE W. MARLEY

Even this healthy *10-foot tree's branches can't withstand the weight of the heavy red coffee berries, borne in winter. Pluck clusters, as they're doing above, and use beans inside to plant new trees*

The skyrocketing price of coffee stimulated interest in coffee plant (*fea arabica*) itself. As a result it's e to get in nurseries than ever before.

But don't get your hopes up. Altho this is the same variety that grows kind of beans ground for coffee, should buy it only for its dense, gl green foliage. It takes several year cultivation in tropical soil and clir to produce high-quality beans. In United States, only people in Ha have much chance of succeeding.

Unless you live in a frost-free area, g coffee as a house plant instead of doors. The 9-year-old tree shown is in a north room that gets plent light. Twice since it was a seedlir has been repotted in rather heavy den loam that holds water well. T plus a leaf mulch, helps keep roots f drying out. Feeding is done twice a with fish emulsion, and the owner pruned it twice.

yes! Ames

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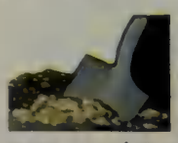

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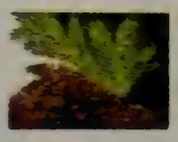

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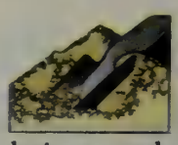

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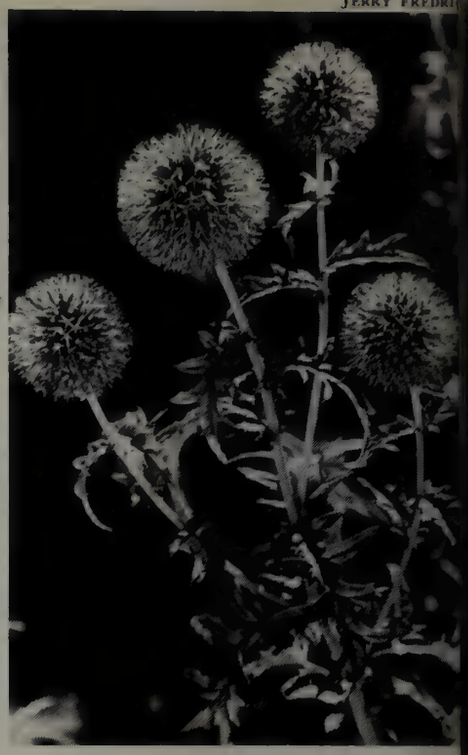
JERRY FREDRI



Globe thistle's *steel blue flowe cluster in 2 to 3-inch spher above gray-green leaves, white sten*

Exotic looking and unthirsty

There could hardly be a more appropr ate time to meet the little-known nati Siberian perennial called globe thist (*Echinops exaltatus*). It grows vigorous in full sun in almost any fast-drainir soil. Once established, the strong, flesh foot-deep roots get along with only mi imal summer watering—about once month in heavier soils, every two weel in sandy soil.

A large clump of globe thistle in th desert-plant section of *Sunset's* Men Park gardens always commands a tention in late summer when its strikir blue flowers bloom on multibranche upright, 3 to 4-foot-high plants. Spin curving, gray-green leaves (velvety whi underneath) and woolly white stems ad to the display.

Combine globe thistle in mixed borde with sun-loving perennials of warm co ors: chrysanthemum, coreopsis, glorio daisy, daylily, and poker plant (*Knipho fia*) are good choices.

After flowers and leaves turn brown, cu stems to the ground. Divide overcrowde clumps and replant strong-rooted div sions 18 inches apart in late fall (in earl spring in cold-winter areas). You coul also start plants by sowing seed in fla or other containers, or right in ope ground in spring. To buy plants, chec nurseries specializing in perennials.

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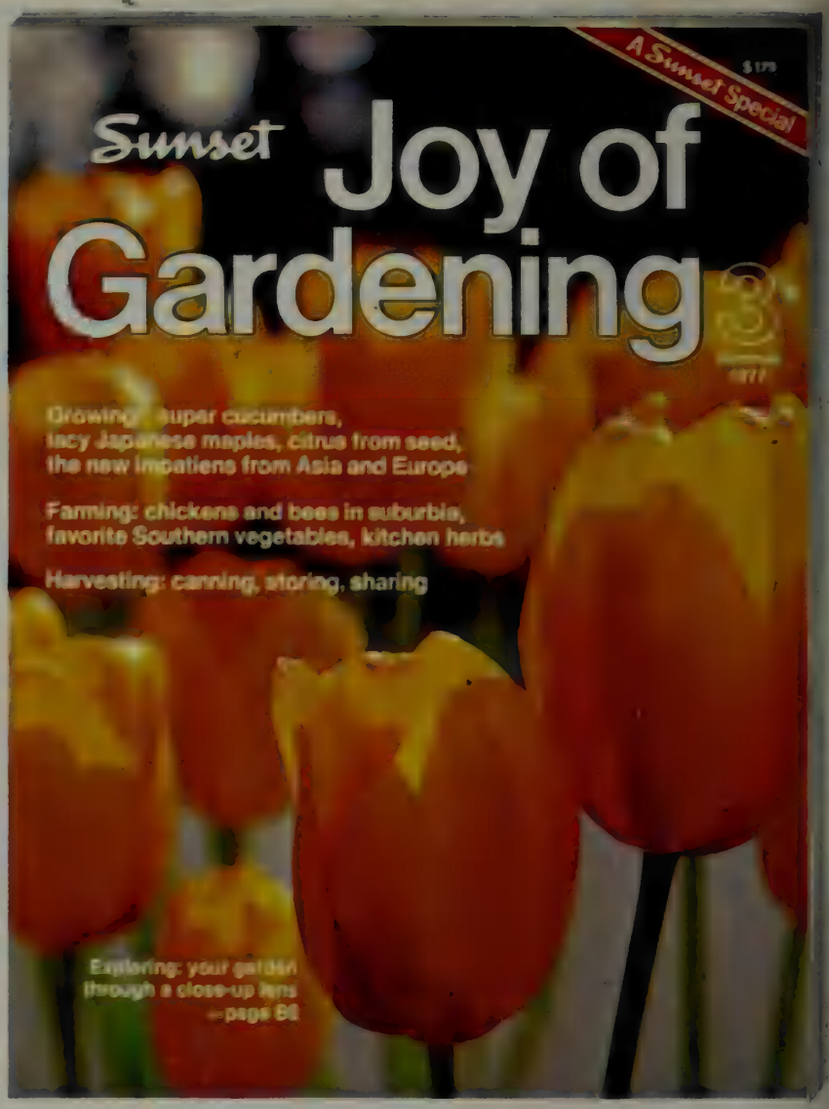
Joy #1 was issued last spring. It was a genuine hit with serious gardeners all across the country; so we've published *two* this year.



Joy #3 Now at your newsstand $1.75

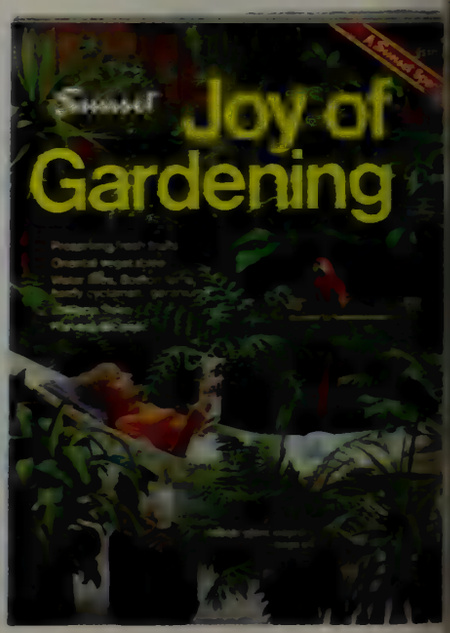
Joy #1

Joy #2 came out early in January '77, and again, it was received enthusiastically.

Now Joy #3 is on the newsstands. Among its many fresh discoveries: 17 new impatiens, Chinese chives, brodiaeas (they need little water), shamrock peas, gourmet cucumbers. It tells you how to grow herbs in a greenhouse, how to garden under lights, how to grow a pear in a bottle, how to store and preserve surplus food. And for back yard farmers, it even offers full guides to beekeep and raising chickens.

You can pick up a copy of Joy at any newsstand now. Or if you p fer to order it along with Joy #1 a #2, send your check with the coup below and we'll send it to you return mail.

Joy #2



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PETER O. WHITELEY

Bench area *keeps children within sight of house, but out of front garden*

Their fence is a friendly bench

ıen Donald and Mary May of Santa ız, California, engaged landscape hitect Roy Rydell to remodel their ry garden, they asked him to set aside area where neighborhood children ıld pause from sidewalk frolics.

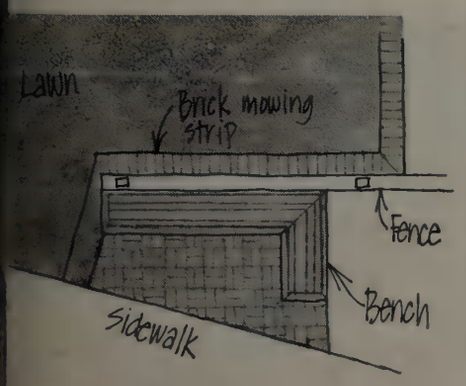
; solution was to remove a section of sting lawn—roughly 5 by 8 feet— ng the sidewalk and pave it with athered bricks. At the back of the cked area, he put in an L-shaped ıch and fenced it off from the remain- ; lawn.

is redwood bench extends 8 feet along e arm, 4 feet along the other. Alter- ing 2 by 4's and 2 by 2's make up : seat. The bench sits 16 inches off : ground and is supported by three ıy 4's sunk in concrete.

nning along the back of the bench, : slatted fence provides a barrier be- een lawn and sidewalk. Only 3 feet h, it's low enough for an unobstructed w from the house.

r shade around the bench there's a ıyten tree (*Maytenus boaria*), planted years ago. Star jasmine (*Trachelo- ermum jasminoides*) fills in the area der the tree.

brick mowing strip makes it easy to ow the lawn close to the fence. □



Only about *40 square feet of lawn were replaced for new landscaped seating*

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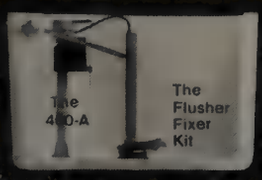

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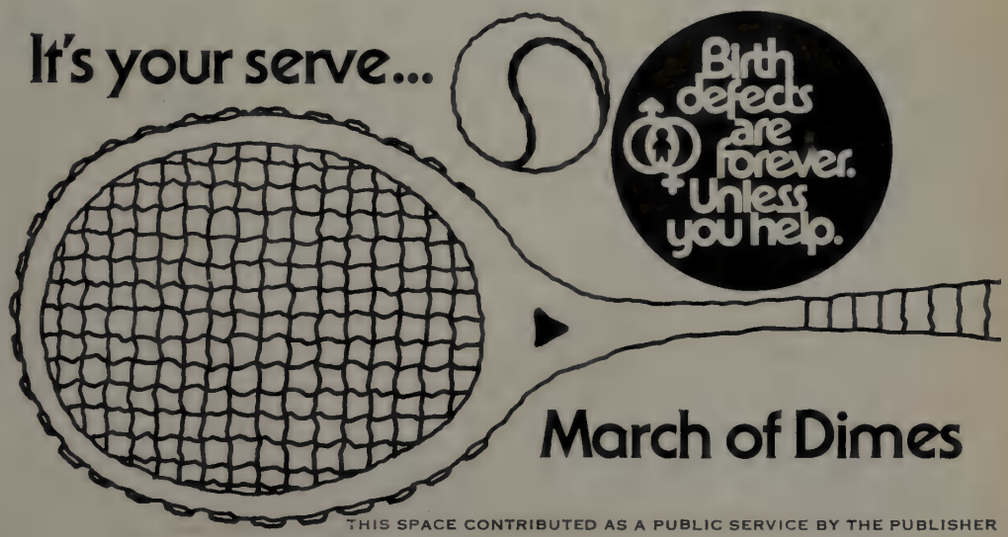


March of Dimes

THIS SPACE CONTRIBUTED AS A PUBLIC SERVICE BY THE PUBLISHER

Slanted doors, *7 feet long, form one end of home-built greenhouse. Door opening is 35 inches across at top, 45 inches at bottom. Three steps made from concrete blocks lead to below-ground interior*

Standing *just 3 feet above ground at the eaves and less than 6 feet at peak, greenhouse presents a low profile to the neighbors. Roof supports of laminated lath curve upward toward thermostat-controlled venting hatch*

GLENN CHRISTI

Inside, *there's good head room. Center posts rise 7½ feet above gravel floor; concrete block walls are entirely below ground l*

Front yard greenhouse is both courteous and efficient

It stands just 3 feet at the eaves, under 6 feet at the peak. It's a convalescent home for house plants and also a vacation shelter for container plants

Long bolt *clamps together 2-by-2 support, lath rib, plastic skin, and outside lath. Shorter bolts are spaced 2 feet apart along ribs*

h a sunken floor 2 feet below ground l, this greenhouse solves two prob- s. It presents a low profile to the ghbors from a site near the front of rner lot. And the surrounding earth s the interior greater protection from eme heat or cold.

unusual eight-sided shape and grace- y curved roof may reflect Frank nburg's longtime hobby of metal- king, which is closer to sculpture n to straight-line carpentry. Here is he put this structure together:

ndation. The design called for two allel 8-foot side walls, a 4-foot wall at end and the outward-slanting entry he other, and a 5½-foot wall across h corner.

nburg dug a 2-foot-deep excavation lined it with three courses of hollow concrete blocks, set with their holes overlapping to hold 2-foot-long 4-by-4 support posts and a firm packing of sand. In all, he used 93 blocks (about 65 cents each). A plate of redwood 2 by 8's laid along the top of the wall was nailed to the short support posts.

Side walls. At each corner, a 3-foot-long 4-by-4 post was toenailed to the top of the redwood plate. Vertical 2 by 2's were set about every 2 feet in between. Then the walls were broken into smaller openings with a horizontal 2 by 2 across the middle and a 2 by 4 across the top of each wall section.

Roof. The 24 supports function much like the ribs of an umbrella. They are laminated from 8-foot redwood lath sold in bundles of 50 (about $15 per bundle). To give the ribs a uniform curve, Winnburg moistened three lath with water, clamped their ends in a vise, bent them around an anvil, and anchored the other ends against a wall. Nails spaced 3 inches apart, with protruding ends bent over, held the drying lath together.

Two 9-foot redwood 4-by-4 posts support the roof center. Each was treated with preservative and set 1½ feet into the floor through the center of a concrete block.

A boxlike framework around the post tops supports the roof ribs and contains an automatic vent opener.

Then Winnburg nailed the ribs to sides and roof center. A notched horizontal 2 by 2 braces them in midspan.

Exterior skin. Winnburg used a fiberglass and nylon-reinforced, acrylic-fortified polyester resin sheeting designed for residential greenhouse use. A 50-foot roll 4 feet wide costs about $100; the top and sides of this greenhouse required about 1½ rolls.

He wrapped the plastic sheeting around the sides and nailed lath to the frame to secure it. He cut individual pieces for each roof section, overlapping adjacent pieces across the ribs, and put bolts through lath, plastic, and ribs. For extra weatherproofing, he sealed edges of the outer lath with clear plastic caulk.

The summer uses of a greenhouse

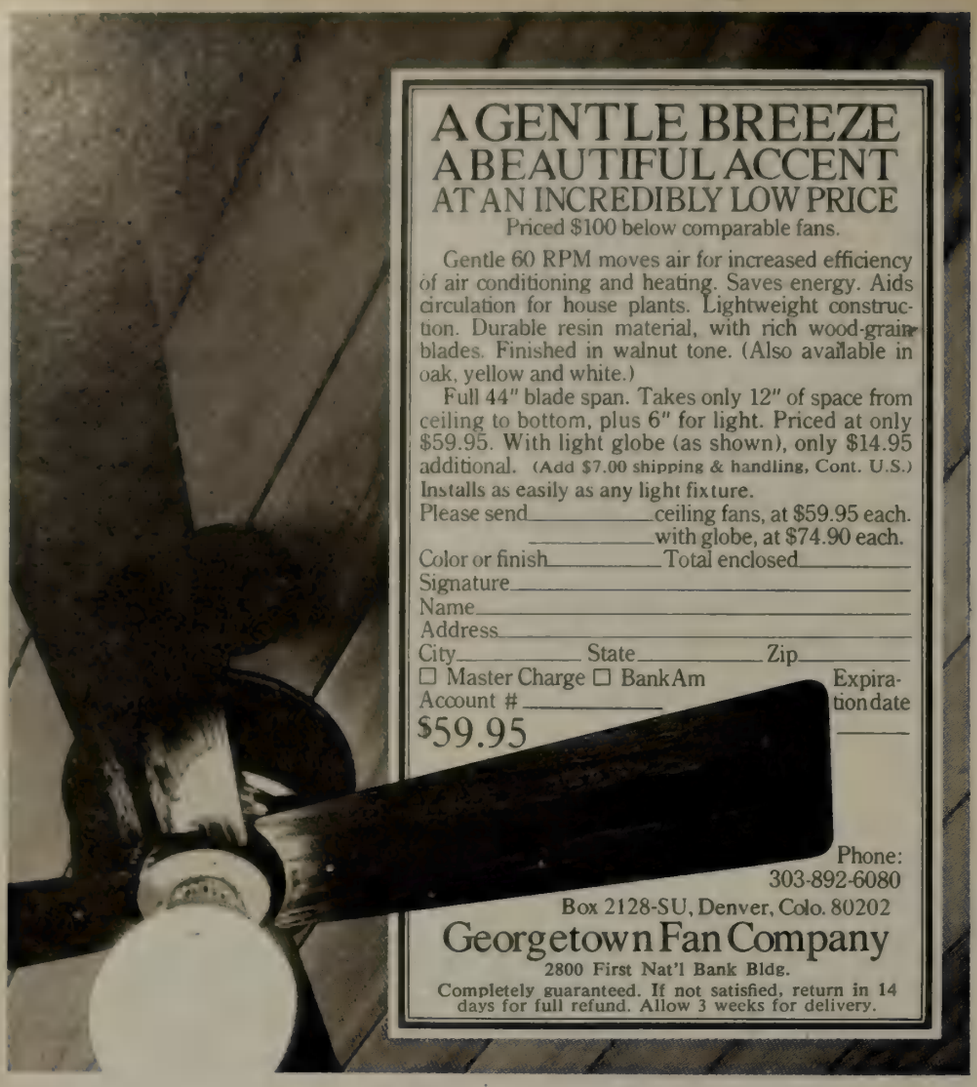
In this water-scarce year, it's good to remember that a greenhouse can conserve a certain amount of gardening water by recycling it in the air. A humid, properly shaded greenhouse has several possible summer uses:

As a convalescent home for house plants or any other container plants that have dried out or been scorched by sun.

As a vacation shelter for all container plants (except those that can't take much humidity) when you leave home for more than a weekend. Set automatic watering controls or have someone water sparingly about once a week.

As a place to propagate cuttings or start seeds for planting later in the year, after temperatures decrease and plants need less water. □

Bench *is nailed to 2 by 8 that tops concrete block wall. Knee braces angle down to 2-by-2 strips that are hung from the 2 by 8*



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NORMAN A. I

Former concrete walkway *on a tight lot is now a lush, closed-over atrium*

Tight sideyard is now an atriun

What can you grow in a dark, nar shady place? The owner of this Francisco site was faced with an even narrower and gloomier than m a 4¼-foot-wide concrete service running 20 feet along the side of house—and surrounded by three-st buildings.

The walk had been an outside pass way linking two sections of a hill house. It was seldom used, and w the house was remodeled the owner his chance to find a better use.

Recycled building materials from house remodel (and some scaven elsewhere) helped cut costs. The res the glass-topped corridor shown ab stuffed with clivia, baby's tears, woodwardia and other ferns.

A new 8-foot-high fence encloses passageway. Old window sections from the house remodel cover the a The old concrete floor was replaced v earth-colored used bricks bought fr a demolition contractor.

Bamboo poles (used as importers' pa ing material) were tacked against r matting on the fence. Mirrored Fre doors (another remodel leftover) cl off the atrium, increasing the sense space and reflecting needed sunlight o the plants.

The owner has tried many plants, shade-tolerant clivia and ferns f form best. Some crept in on their o the baby's tears, maidenhair ferns, a a luxuriant woodwardia fern.

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In Arizona... sale of desert plants

Visitors to Arizona this month can get on a unique horticultural happening. I a trio of plant sales sponsored by t state's most prestigious botanical ga dens—the University of Arizona Boy Thompson Southwestern Arboretum Superior, the Desert Botanical Gard in Phoenix, and the Arizona-Sonc Desert Museum near Tucson.

Each of the gardens is well worth a vi anytime, but they're especially nice April when the desert is in bloom. A the plant sales offer an additional i ducement: All plants have been select for their drought tolerance and ada ability to desert climates. Likewi many are suitable for similar conditio in California. You'll also find a wi variety of cactus and other succule that would make ideal outdoor contair plants in mild-winter areas and go indoor plants almost anywhere (see t cactus article on page 50 of the Jan ary 1977 *Sunset*).

Sale dates and locations

April 9 and 10. The only two-day sale at Boyce Thompson Southwestern Arb retum, 12 miles east of Florence Jun tion near Superior (about 60 miles fro Phoenix, 100 from Tucson). Sale hou 8 to 4:30. Plant sale: free. Garden entr donation.

April 16. Desert Botanical Garde Phoenix (McDowell Road at 64th Stre in Papago Park). Sale hours: 9 to Plant sale, free. Garden entry: donatio

April 23. Arizona-Sonora Desert M seum, 14 miles west of Tucson in Tu son Mountain Park (sale in main par ing area). Sale hours: 9 to 5. Plant sa Entry fee to museum: $2.50 for adul $1.50 for 13 to 17-year-olds, 50 cer for children 6 to 12, free for childr under 6.

Word of caution

If you will be driving back into Califo nia with purchases, you may be stopp for an agricultural inspection. Plants soil require a certificate of origin or sar tary certificate. If these are unavailab at the plant sales, better buy only cact and succulents you can transport ba root (remove soil).

Note: It is against the law to colle plants from public or private lands e cept under special conditions, and illeg collecting has created a serious proble in many desert areas. All plants offer at these three sales have been nurse grown—none collected in the wild.

976 *Sunset* Index

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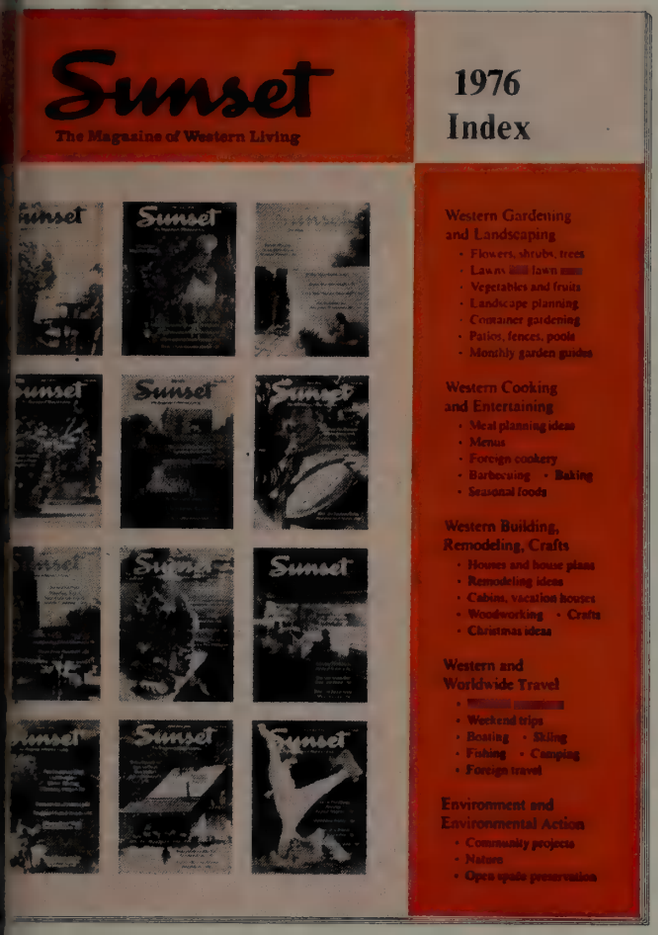

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Will codling moths hit your apple trees this year? And if they do, what can you do? Here are answers

Most gardeners with apple trees assume that if they don't spray they'll probably get wormy fruit (the worms are codling moth larvae, which also attack walnuts and pears). The moth is a European species and there aren't sufficient natural controls in America to keep its population in check.

But now there's a way to determine, early in the season, whether your trees even have a codling moth problem that's serious enough to treat. And if they do, two biologically-based sprays can give you an alternative to spraying with the traditional broad-spectrum nonselective insecticides.

To try it, you'll need pheromone (sex-attractant) traps for the male moth and selective sprays that are available by mail. Order as early as possible; treatment started around blossom time is most effective.

The trap. Receptive female codling moths release a pheromone (scented hormone) which attracts mates. By duplicating this attractant, the pheromone trap lures the male to his death. In most areas of the West, codling moths first appear from March to June (earlier in the south, later in the north). You can monitor moth population cycles with the traps, and using the formula below, determine when it's best to spray.

Order one pheromone trap per mature tree. Single traps, each with three caps and three liners, and a catch record form, cost $6 ($6.36 in California) from Ecology Action, 2225 El Camino Real, Palo Alto, Calif. 94306. Three-trap kits, each trap with three caps and two liners, cost $17.05 from Zoecon Corporation, 975 California Ave., Palo Alto 94304. The three-liner traps seem to work best.

The spray. After mating, the female typically lays about 100 eggs, depositing them singly on leaves and twigs. In cool weather, laying may continue two or three weeks, but usually is finished more quickly. Eggs need at least five days to hatch. *Spraying should coincide with maximum egg hatch to kill young larvae before they enter the fruit.*

Both the narrow-spectrum sprays we list here have proved effective, and neither will harm beneficial insects.

Ryania, a stomach poison of plant origin, is relatively nontoxic to higher animals. It costs $5.79 for 2½ pounds from Hopkins Agricultural Co., Box 7532, Madison, Wis. 53707.

Bacillus thuringiensis (BT), a bacterium that kills the larvae of some moths and butterflies, has experimentally reduced codling moth populations by 50 percent. It's widely used to control geranium budworm, oak moth larvae, and cabbage loopers but is not currently registered for use against codling moth larvae in the United States. Sold as Biotrol 16K, Dipel, and Thuricide, it is used effectively against codling moth larvae in Canada.

What about alternatives?

Other more widely available insectici are broad-spectrum products. These clude such chemicals as diazinon methoxychlor. They usually kill the t get species, but can disturb a garde ecological balance by destroying m kinds of beneficial insects as well.

A broad-spectrum product can eit wipe out all insects in your apple tr or leave only a few types of creatu (such as mites in the case of metho chlor) with virtually no natural enem It opens the tree to invasion by the f insects or mites to appear after the pr uct breaks down; consequently, repea treatments are usually recommend When you try any insecticides, foll the label directions and cautions scru lously.

Another control that can be used by self or in combination with any ot method is to wrap tarpaper, burlap, corrugated cardboard around each t about 3 feet above ground level. Lar crawl into the wrappings to pupate; stroy and replace infested wrappi every month.

Other useful pest control hints

A flowering cover crop under a fruit t will help provide food and shelter beneficial insects. Low-growing cov include white clover, sweet alyss thymes, woolly yarrow, a wildflo mix. Taller plants which shelter be ficial insects include wild buckwhe (*Eriogonum*) and many members of daisy family.

If ants are crawling up the trunk to te aphids (look for sticky honeydew curled, distorted shoots as evidence feeding aphids), purchase a sticky pr aration to paint around the trunk. Oth wise, don't try to control the ant they're major predators of codling m larvae.

Keep lumber or debris away from tree. They provide shelter for lar which overwinter in cracks or crevi near the trees, then pupate in ea spring.

Here is a codling moth control formula that worked

This codling moth control formula is based on the experience of Ruth Troetschler, a Los Altos, California, biologist. By following it, she is able to get 80 to 90 percent worm-free apple harvests.

1. At blossom time, place one pheromone trap in each mature tree about 5 feet into the branch canopy.
2. Every week record the number of new moths in each trap. Rake up and destroy fallen apples.
3. When apples are the size of ping-pong balls, thin to two apples per cluster and destroy wormy apples.
4. Over a period of several weeks, try to gauge the extent of the codling moth flight (a flight is a cyclical population peak, during which most larvae become flying, breeding moths). Here's how to do it:

When the weekly moth catch is lower than the previous week's (a good sign that the population has peaked), total the number of moths caught in the entire three or four-week flight. Then:

—If the total catch per trap is less than 20, no spray is needed.

—If the total catch is greater than 20 and it has been warmer than 65° on the previous three days, spray immediately.

—If the total catch is greater than 20 and the weather has been cool (less than 65° on the previous three days) delay spray for a week (cool air will slow the egg hatch).

5. During the second and third flights (about mid-June and early August) repeat steps 2 through 4. Change trap liners and caps every six weeks. If you leave apples on the tree beyond early September, a fourth flight may occur. Order an extra pheromone cap and trap liner ($2 from Ecology Action) and repeat steps 2 through 4.

The nicest lawns of all have a dark even color and grow at a nice even rate. And lawns like this come chiefly from seed that will grow grass like this.

Just asking for bluegrass isn't enough. There are hundreds of bluegrass strains and each has a "Personality." Some get sick easily. Some are fighters. And some come on strong and then fold up on you. It's all in getting the right seed.

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Every seed harvest brings in both the little immature seeds and the older plump fellows. The immature seeds are too weak to be worth much except for filling up the box. So what we do at Scotts is separate the big ones from the small. You get plump lively seeds and that starts you off with a lawn with some fight to it.

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And you also ought to know what you don't get. Coarse "crop" grass. Crop is a group of maverick plants that fight good grass. They're bullies and about the only way to get them out of your lawn is with a shovel. They grow in most grass fields, so before we have seed to sell we go out of our way to see that this problem crop is taken out. It takes a lot of digging and some other work too. But we try to put a perfect lawn in every box.

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We're the Scotts people. We've been in the seed business here in Marysville, Ohio, for 100 years.

For a lawn, *mow three or four times during vigorous summer growth, before flowers get taller or more profuse than those above*

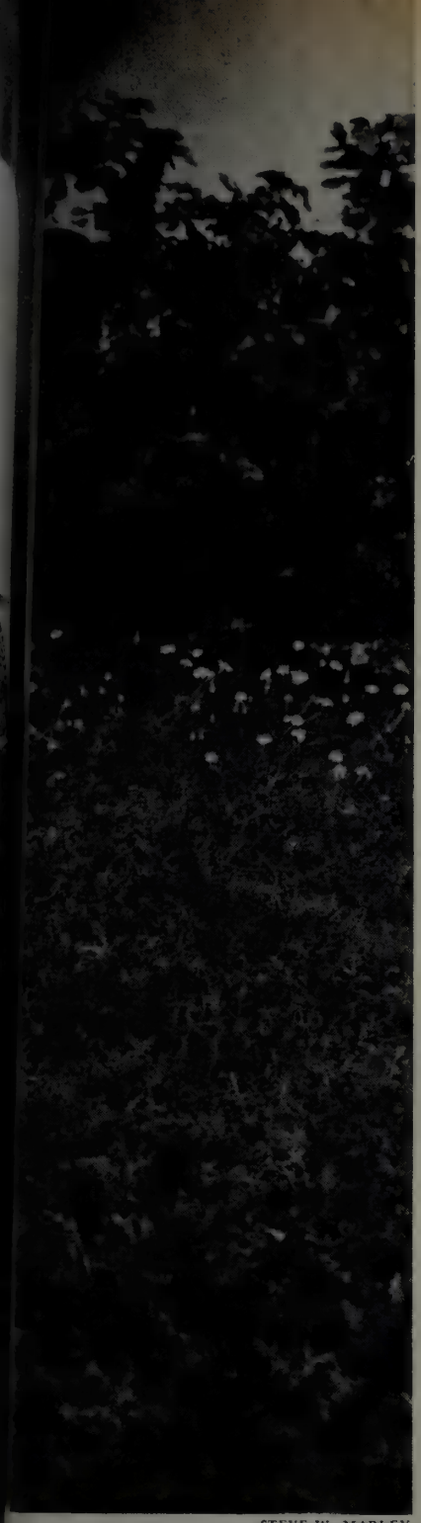
Daisylike *white flowers bloom only on chamomile started from seeds*

Clean, heady fragrance *is a bonus; as a lawn it needs less water, fertilizer, and mowing than grass*

What smells like Christmas, has a romantic past, is a troublemaker? Chamomile

English chamomile, or *Anthemis nobili* is a low ground cover that forms a thic green mat and smells like Christmas. O warm days, or whenever you touch it, fills the air with a sweet, resinous scen reminiscent of conifers and chaparra or new-mowed clover.

History buffs love chamomile for the r mance of its past. Sir Francis Drake said to have been bowling on a green chamomile when the Spanish Armad sailed into the English Channel. Love in the 18th century enjoyed the aphro disiac qualities when it was planted i secluded bowers. Many Europeans sti revere it as a cure-all: You can pour inside the body as tea (see page 26



STEVE W. MARLEY

into plugs to plant in about 8 weeks.

Where water is rationed or limited, wait until October to plant.

Trouble-shooting

Chamomile has its ups and downs. Try it only if you're willing to tolerate imperfections, or if you enjoy the challenge of trying to avoid them. Spotty brown patches that sometimes appear can be caused by hot, dry weather or winter cold; they also may result from poor drainage or just the nature of the plant. The best way to cope with chamomile's irregularities is to plant it in relatively small, private areas where periodic scruffiness won't be annoying.

The trouble usually begins when the charm of all those nodding little flowers numbs your good judgment. Who can stand to cut them off? We couldn't, though we knew better. We soon had a field of flowers 6 to 8 inches tall—lovely, but no longer lawnlike. By October, both flowers and foliage were brown and ragged. Since any pretty growth at that stage is all at the tips, mowing or clipping to a normal height just leaves a mess of tough, naked stems.

At this point, the best move is to set the mower as low as possible and scalp the plants. Then hand-trim any remaining woody stubs. Virtually nothing may remain above ground, but if the weather is still warm and you can water, within a month you'll be amazed at how large the patches of green are again.

Two alternatives

So, if you want a chamomile lawn, steel your will and mow soon after flowers begin to bloom, well before foliage begins to hump. Managed this way, chamomile will stay relatively smooth and green all year in moist, coastal climates such as Mrs. Sheila Davies's lawn in San Francisco, shown at left. The colder your climate and the more new growth you've forced by erratic mowing, the more that will turn brown in winter.

If the neat, groomed look of a lawn isn't important, and you don't mind ground that's mostly barren from late fall until spring, let chamomile follow its natural cycle: After seeding, it gradually dies to the roots. Then clip or mow it close to the ground after it dies.

Care—watering, weeding

Once plants are established, be spare to moderate with water and fertilizer to keep growth more compact. Our summer watering in Menlo Park, California, ranged from three to six weeks apart; color will stay brighter on the more frequent schedule. A mulch of well-rotted manure or compost, or a light feeding with a low-nitrogen fertilizer before growth resumes each spring, helps to keep growth thick and even.

No selective chemical weed control is available, so plan on some hand-weeding about once a month. On weedy soil, it's wise to apply a short-term sterilant 30 days before planting, or to germinate and kill weeds several times. If you sterilize soil, be sure to work in organic soil conditioners at planting time. Three weeks later, you dust the area with a preemergent powder to control weeds.

Where to grow it

Chamomile grows well in full sun near the coast; partial shade is better in hotter climates. The hotter and drier your climate, the smaller and more sheltered the planting area should be.

Besides the small lawns shown here, we've seen some other appealing settings that used chamomile:

—an unmowed meadow; around screens or groves of birches, redwoods, or other trees, sometimes combined with clumps of dwarf agapanthus, gazanias or other drought-tolerant perennials.

—on the banks of an artificial stream (see page 204, April 1976 *Sunset*).

—around rocks or between steppingstones. (Here, foot traffic keeps it compact without mowing.) □

plaster it outside as a poultice.

you plant chamomile this month from rsery plugs set about 9 inches apart, u should have a solid expanse of ght green by June or July. Seeds are ly slightly slower than plugs to cover, you sow extra thickly. They're also only way we know to get the kind h petaled flowers. Both plugs and ds bloom the first year, from June or ly into fall.

u can order seeds from Park Seed ., Greenwood, South Carolina 29647. ch 60-cent packet covers up to 30 uare feet. Sow directly into the ground you can coddle seedlings; otherwise w into flats, and cut the seedling mat

NORMAN A. PLATE

Gold buttons *(no petals) are typical of cutting-grown nursery plants. Left unmowed, these chamomiles grow 6 inches tall; they can be sheared or mowed just once a year*

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vents . . . Monterey nd Santa Clara

's what's happening this month in ening circles in Santa Clara and nterey Counties.

Gatos. April 3. Open house at the is Saso Herb Garden, 14625 Fruit- Ave. Hours: 1 to 4. Free.

Altos. April 9. Plant sale by Foothill 's Garden Club. Place: Rancho pping Center, Foothill Expressway pringer Rd. Hours: 9 to 4.

npbell. April 15 and 16. Show and by the San Jose Garden Club. e: The Factory Shopping Center, S. Central Ave. Hours: 1 to 9 Friday; o 6 Saturday. Free.

nlo Park. April 16 and 17. Exhibit the Kusumura Bonsai Club. Place: nford Linear Accelerator Center, 5 Sand Hill Rd. Hours: noon to 9 urday; 10 to 4 Sunday. Free.

untain View. April 16 and 17. Show sale by the Cactus and Succulent iety of San Jose. Place: Mayfield ll, San Antonio Rd. at Central Ex- ssway. Hours: 10 to 5:30 Saturday; n to 4 Sunday. Free.

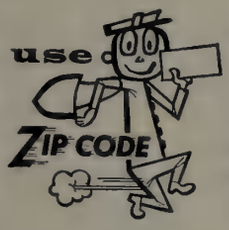
nterey. April 23 and 24. Tour of toric adobes and their gardens spon- ed by the Monterey History and Art sociation. Hours: 10 to 5 Saturday; on to 5 Sunday. Tickets sold on tour s at Casa Serrano, 412 Pacific St.: students and military $2.50; children der 6 free. Advance tickets $4 from nsor (c/o Mrs. Stewart Peck), 550 lle Principal, Monterey 93940.

ratoga. April 24. Wildflower and na- e plant sale by the California Native ant Society, Santa Clara Valley chap- . Place: Saratoga High School, Harri- an Ave. and Saratoga-Sunnyvale Rd. ours: 10 to 4:30.

organ Hill. April 30 and May 1. An- al flower show of the Morgan Hill ower Lovers Club. Place: Friendly n, Hale Ave. near Main. Hours: 1 to 6 turday; 10 to 5 Sunday. Free.

n Jose. April 30 and May 1. Iris show esented by the Clara B. Rees Iris Soci- . Place: Westgate Shopping Center. ours: noon to 5:30 Saturday; noon to 4 nday. Free.

n Jose. April 30, May 14 and 21. urse on herbs by the UC Extension, nta Cruz. Place: Fireside Room, Im- anuel Lutheran Church, 1710 Moor- rk Ave. Hours: 9 to 3. Fee: $45. For cessary preregistration, call UCSC Ex- nsion, (408) 429-2351. □



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Camping and RV show at Sunset May 8

Where in the West can you see inside dozens of recreation vehicles, learn how to pack a backpack (or a pack horse sample foods for campers, or watch champion fishermen work — all in a setting of green lawns, bright spring flowe and shaded walkways?

The answer is the *Sunset* Camping and Outdoor Recreati Show to be held Sunday, May 8, at the *Sunset* Headquarte complex in Menlo Park.

Last year, more than 23,000 visitors came to *Sunset's* seco camping show. Visitors found time to enjoy the free fo samples, talk with campground owners, try on different kin of hiking boots, peek into all of the cabinets of a sleek trav trailer, find out how a spacious dinette area becomes a co fortable double bed in a small van conversion, get help on tieing from an expert and admire a garden displaying eve thing from a giant desert yucca to colorful rhododendr from the Pacific Northwest.

The show is free, and children are welcome. Last year, t youngsters were particularly intrigued by the giant teepee the center of *Sunset's* 2½ acre lawn (the teepee will be ba this year). They enjoyed the boats, off-road vehicles, color tents, and the food (especially the food!) as much as th parents, but exhibited special fondness for the patient pa animal quietly munching hay in the *Sunset* test garden.

This year, there'll be more food samples than ever, two sm movie theaters, a climbing tower with demonstrations, a ho to-do-it portaging exhibit, and a whole series of informati demonstrations and displays.

The show will be held from 10 a.m. until 5 p.m. at *Suns* headquarters, at the intersection of Middlefield and Willo Roads in Menlo Park, next door to Palo Alto. From U.S. 10 Bayshore Freeway (northbound or southbound), take Willo Road offramp and go west one mile to *Sunset.* From the Ea Bay, the Dumbarton Bridge (Hwy. 84) leads directly to Willo Road and *Sunset.*

This is the only week-end day this year that the *Sunset* ga dens will be open to visitors.

STEVE W. MARLEY

Two kinds of roots *show up on this 7-foot avocado tree. The fine feeder roots that make up most of the root ball always grow near the surface. Thick central tap roots (only one is visible here) will grow deep into the soil as the tree matures*

How to treat thirsty avocados in a water-short year

ıong the trees most likely to suffer in ·rolonged drought are avocados, since y require much water to bear high-ality fruit. Following are some tips on w to keep them alive and producing.

ɔst important, remember that avocado es have two basic kinds of roots: :der roots, 90 percent of which are hin a foot of the ground's surface, d tap roots, which grow deep into the l. Both systems must get water for althy tree and fruit growth.

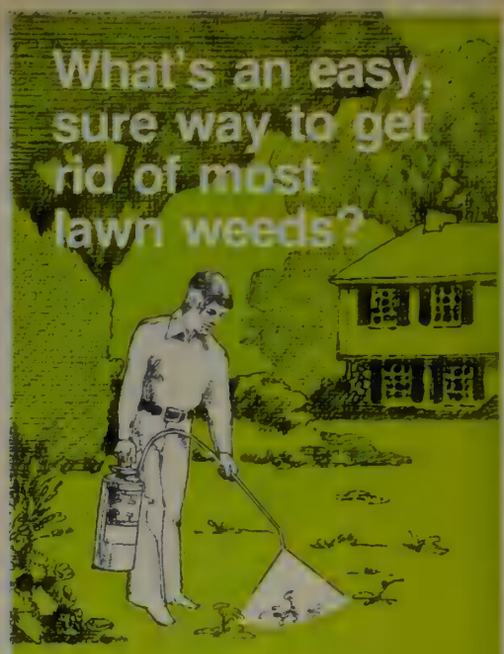
ıce feeder roots are closer to the sur-ce, they dry out quicker. You can slow aporation and keep these roots cool by ting an avocado-leaf mulch build up er the entire area directly beneath the e. Enclose this area with a watering sin to prevent water from running out ıen you do irrigate. You should water least once a month, or feeder roots ll probably suffer enough to make the e drop some or all of its blossoms or ımature fruits.

ıp roots can grow quite deeply on an tablished tree, and are its lifeline. As ey dry out, the tree's leaves wilt and ırt dropping off. At this point the tree under severe water stress and should get a deep watering. If it doesn't, death may follow.

Based on an avocado survey we took last summer, and interviews with growers and researchers, young trees should be watered at least every month during summer (more often for trees planted this year and trees in fast-draining soil, and during very hot weather). You can use gray water (used household water) on young trees; put down some gypsum first, and don't use water that contains bleach, boron, or detergents.

Old established trees may not need summer water at all for survival; a few readers from Colusa south to San Jose never water established trees, and still get fruit. But to produce substantial crops, water deeply once a month if you can spare the water. Since gray water is usually available only in small quantities, it would be impractical and ineffective to use on large trees.

Don't feed your trees this year. Fertilizer will cause the tree to grow (making more leaves that require and emit water) and also will raise the soil salt level, which reduces the amount of ground water available to the tree. □



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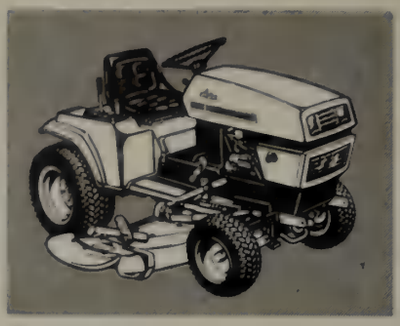
Ask these questions before buying any Garden Tractor.



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3. **Can I use more than one attachment at the same time on your tractor?**
4. **Do you offer a 2-stage Snow Thrower for *All* your Garden Tractors?**
5. **What is the capacity of your tractor's gas tank?**

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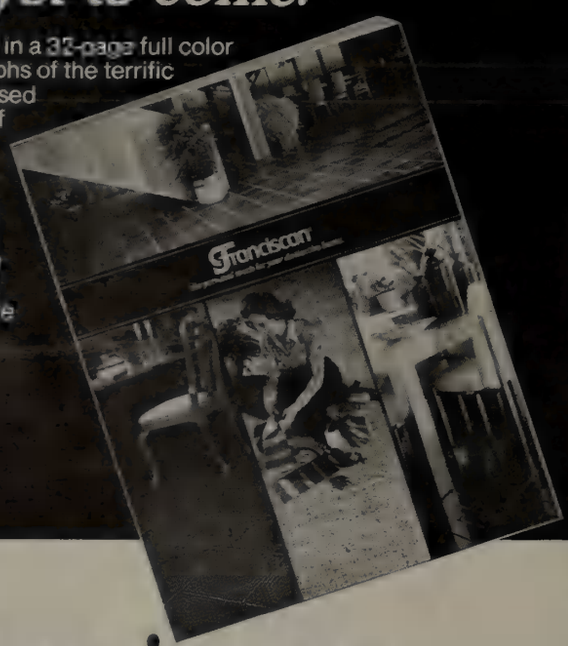

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NORMAN A. PL

Velvety leaves *1 to 4 inches wide and tiny white flowers of potted peppermint geranium are trellised up frost-free wall*

This geranium is a special treat

You can enjoy peppermint geranium you would any other fast-growing clim ing or trailing plant—just for its lool As an extra dividend, the leaves have t floppy softness of puppy's ears, and t clean smell of toothpaste. You can u them to scent your bath, or as a velve bed under fruit salad to add flavor a fragrance.

Plants grow more vigorously wh slightly rootbound in a large pot rath than unrestricted in the ground. The o shown is a 1½-year-old growing in 2-gallon pot sunk into the ground. Y can tie the stems up a trellis, or let the cascade from a hanging pot or windo box; pinch back stems regularly to ma sprawling growth bushier.

Peppermint geranium (*Pelargonium t mentosum*) needs about the same care any common geranium: some good fa draining soil and full sun to partial sha in coastal areas, more shade inlan Plant in a sheltered area such as under tree or lath as protection from lig frosts. In all but the mildest coastal c mates, grow it as an annual or bring indoors to a cool room with excelle light for the winter. Keep the roots moi —it needs a little more water than t average geranium.

Small plants cost a few dollars at som nurseries. For a list of mail-ord sources, send a stamped, self-addresse envelope to Peppermint Geraniun *Sunset* Magazine, Menlo Park, Cali 94025.

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Enclosed cold house *has removable windows for summer care and cooling. Door at far end gives access when windows are in. Snow fencing on house's fiberglass roof (above) gives overhead shade; window prevents overheating*

Meeting the Nevada climate challenge, Sparks garden has both sun screen and cold house

Octagonal shade structure, *15 feet across, takes the place of a tree in this new garden in Sparks, Nevada. It protects rock garden plants from sun's harsh rays*

Western Nevada's climate, like that of most interior regions, is hard on all except the toughest plants. Frosts come until late spring and start in early fall; drying winds and brilliant sunshine dehydrate foliage; alternating winter frosts and thaws damage roots, and plants can't count on protective snow cover.

Nevertheless, Loring and Margaret Williams have amassed a large and varied collection of alpine and rock plants in their Sparks garden. The two shade structures you see here were designed by them and built mainly by Mr. Williams to keep the more delicate plants alive.

Mrs. Williams's selections are tested for the site by starting them in pots plunged in the ground; if plants do well, they are transplanted directly into the ground.

Octagonal sun screen

The structure pictured at right protects tougher, more wind and cold-resistant plants against the fierce sun. Built mainly from material left over from the construction of the family's house, its lath roof, 15 feet across at its widest part,

upported by redwood and pine 2 by on redwood 4 by 4's; these rest on sonry or poured concrete piers.

e shade house does the work that es did at the Williamses' former use: it protects dwarf varieties of *amaecyparis,* Japanese maples, and a ge collection of rock garden plants luding many gentians and saxifrages. most parts of the country these are -loving plants, but in Nevada even lovers need some shade.

closed cold house

nts that require shade in gentler cli- tes also have a hard life in Nevada. ost evergreen perennials and broadleaf ergreens cannot survive. For them, the illiamses built an enclosed cold house.

providing shade and still air, the cold use protects plants against sun, wind, d low humidity. It is unheated, and in nter is little warmer than the outside , but temperature changes are less astic (50° temperature shifts during a gle day are common in Nevada).

s quite big: 22 feet long, 8 feet deep, th 7 feet of headroom. The rear is a taining wall set into the south-facing pe of a hill, which furnishes some ade and protection against winds.

e foundation is made of slumpstone ocks. They enclose 18 inches of care- lly prepared soil that make the house giant enclosed, raised planting bed.

aming was designed to accommo- te storm windows salvaged from the illiamses' former house. Corrugated erglass panels cover walls above e windows and form the roof. In e summer, windows lift out to pro- de faster ventilation and prevent heat ildup; watering can be done through y opening, as the photograph on page 0 shows. When the weather turns ld, windows can be replaced by seat- g them back on their sills and secur- g them with turn buttons. A door ves walk-in access.

hade, shade, and shade again

engths of snow fencing provide addi- onal shade on the roof, but even this is ot enough. Shade cloth lines the struc- re and forms curtains over the remov- ble south-facing windows. Other win- ows high up in the fiberglass part of the ructure prevent heat buildup near the eiling when larger windows are in place.

Mrs. Williams grows her choicest plants ere—plants that can take subzero tem- eratures but can't stand the drying inds, unseasonable freezes, and capri- ious false springs of the intermountain limate. The shelter also keeps early looms from damage.

Among the plants doing well in the cold ouse are hardy cyclamen (*C. coum*), aphnes, hellebores, dwarf rhododen- rons, and *Pieris formosa forrestii.* □

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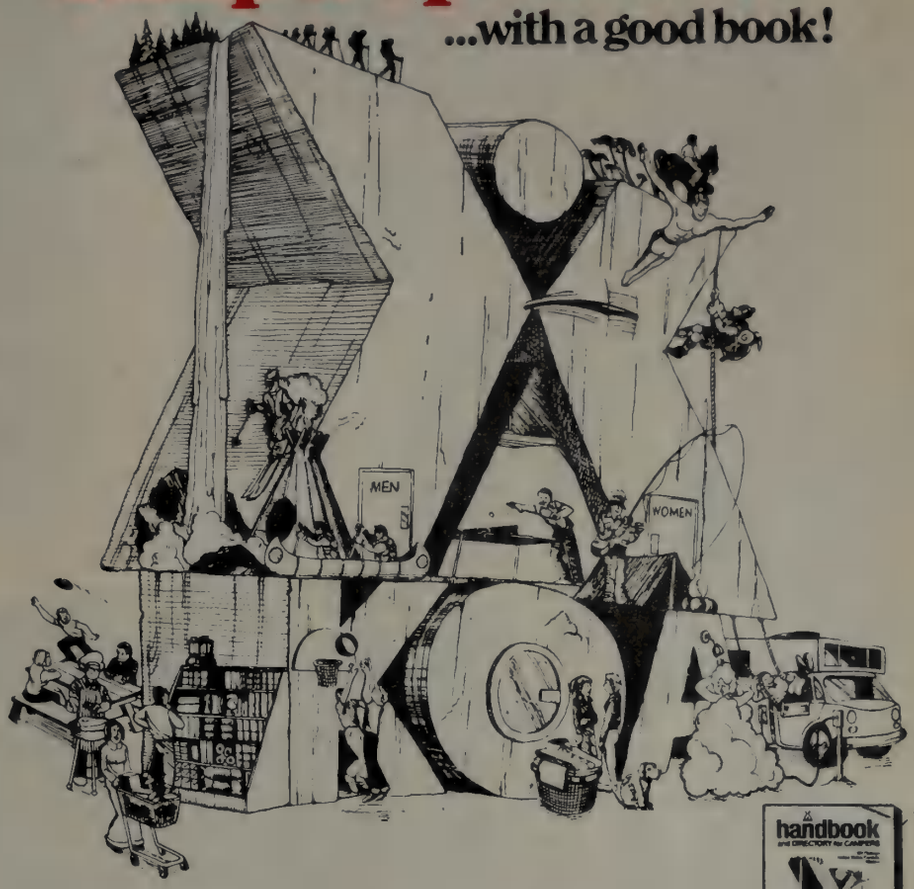

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Control center: *Water enters through single pipe at right, leaves through three at left; pressure gauge and shut-off valve are above*

Water flows *from short tube held by gutter hanger strap. Buried lines go to more remote basins*

DRIP IRRIGATION CASE HISTORY

The Israel family orchard irrigation system is frugal . . . 20 gallons per tree per month

A drip-irrigation system saves water in two ways: It enables you to put water just where plants need it, and nowhere else; none is lost to blowing spray or evaporation from foliage. And it gives water only to desirable plants; weeds, once they're eliminated after spring rains, won't sprout between good plants to steal water from the soil.

A drip system saves labor in obvious ways: It waters many plants with one turn of a faucet; it eliminates dragging around heavy hoses; and it saves the drudgery of pulling or hoeing weeds.

When the R. D. Israel family of Aptos, California, put in a family orchard of more than two dozen trees and vines, they designed and installed a drip-irrigation system for it to save water and labor.

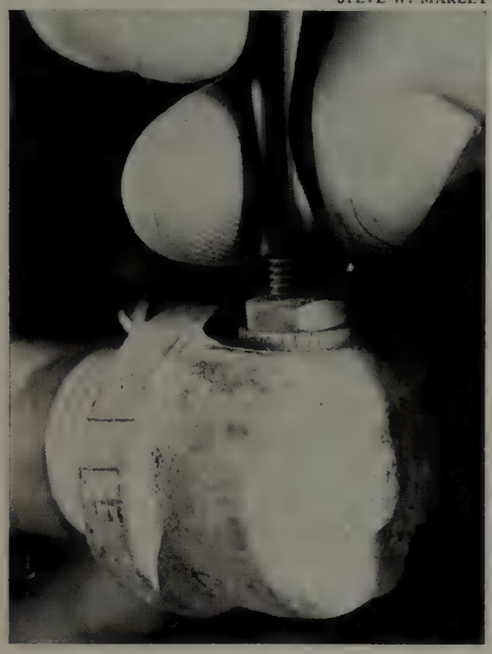
The control center (above, left) checks water pressure and admits water into one or more of the three main underground lines. (It's necessary to check the pressure because water comes fro a storage tank up the hill. If the tank full and pressure high, all the lines c operate at once; if not, lines must operated one at a time.)

These lines are made of heavy-du PVC (polyvinyl chloride) pipe buried foot deep. Risers bring water to t surface, and homemade emitters d perse it to each tree. Assembling t pipes and risers presents no proble Your hardware dealer or sprinkler su

Trees, vines *in orchard grow as espaliers on trellises for easy care. White squiggles at base of trees are plastic irrigation tubes. (Owners later found that black plastic was more durable)*

STEVE W. MARLEY

view *of distributor shown in* ɔgraph *at left. Note coarse mulch* ·e *basin for water saving*



Detail of coupling: *Nut forces washer against cap to prevent leaks. Plastic tube is just pushed over rod*

company can tell you how to weld lengths and risers together with ent and fittings. Or you can read ıt it on pages 130 and 131 of the :ember 1975 *Sunset*.

emitters are the Israels' own design. y pierced ¾-inch galvanized pipe s and inserted homemade fittings for watering tubes. (Plastic caps might n easier to work with, but they de- ned or split during drilling and ·ading.)

e's how to prepare the pipe caps: t grind three flat faces on each cap make drilling easier and more accu- :. Then drill a hole in each face with lo. 21 drill and tap the hole to accept 32 threaded brass rod. Drill brass ¾ inch deep, then cut off with a ksaw and smooth off burrs. (Use a l press or electric drill in a drill stand; either No. 58 or 60 bits will work.) Screw into cap.

To prevent leakage around the threaded rods (now threaded tubes), place a rubber washer around each and cinch it against the cap by tightening a 10/32 nut, as shown directly above. The rod should protrude ½ inch beyond the nut. Secure the cap to a threaded plastic coupling; cement coupling to riser.

Push lengths of ⅛-inch black plastic tubing over the rods and lead them to tree basins. For a neater look, bury longer lengths of tubing in soil or mulch, bringing them to the surface at the watering basins.

The Israels' system delivers 10 gallons per aperture per hour (for a No. 58 hole) at a pressure of 10 pounds per square inch. Last summer they irrigated for about an hour twice a month. □

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PETER O. WHITE

Small flowers *of hollyhock begonia are pink, shading to white in center*

Begonia beauty ... the hollyhock

Begonia fanciers have known about t hollyhock begonia (*B. martiana*) f years. But its beauties should be pr claimed in a larger marketplace.

The origin of the name is obvious in t photograph above: The flowers sit close against upright stems just as hollyho blossoms do. But the resemblance en there; hollyhocks are hearty, rath coarse country wenches alongside t delicate begonias.

Plants grow to 2 feet tall, but as wi other tuberous begonias the exact si depends somewhat on the age and si of the tuber you start with. *B. martia* tubers are cream-colored, smooth, a nearly round. The upper end is mark by a small scar where last year's ste grew; plant this end up, then grow you would other tuberous begonia Stake when plants get tall.

The 2-inch flowers are of a particular pure rose pink, shading to white near t center of the flower. Leaves are da green and fleshy. While most oft grown in pots, hollyhock begonia do well in shaded border areas. The light the shade it gets, the more compa the plant.

Bulb supply is uncertain, even thoug plants make many tiny bulblets alo the stems. (If local begonia specialis can't supply you, write to Logee's Gree houses, Danielson, Conn. 06239.) Bull are available now; look for growi plants in summer.

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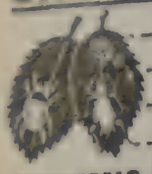

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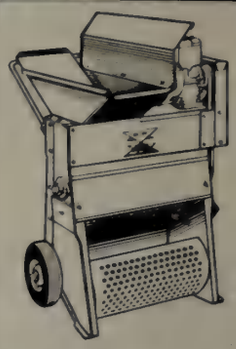

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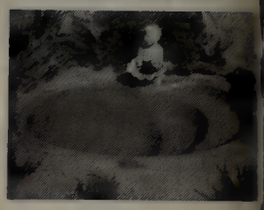

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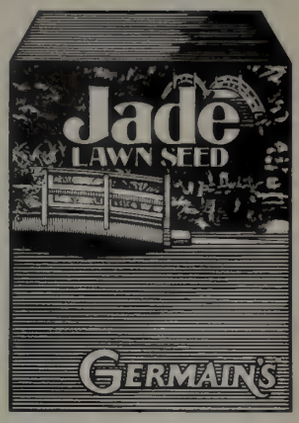

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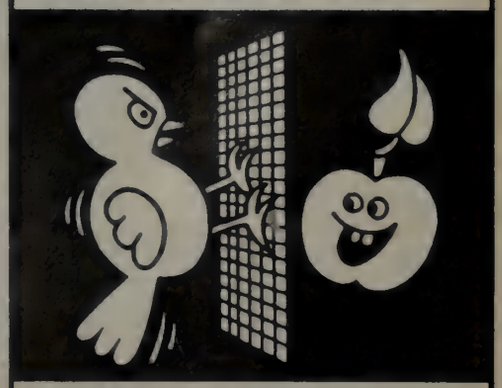

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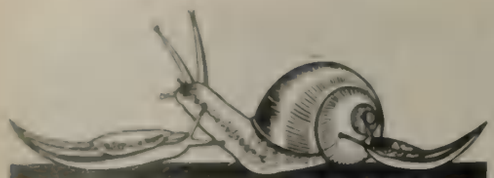

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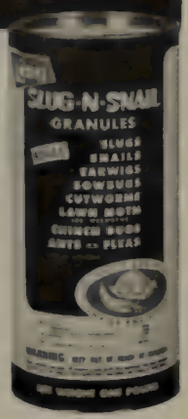

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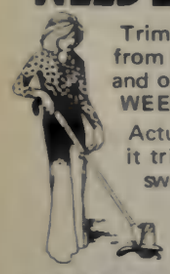

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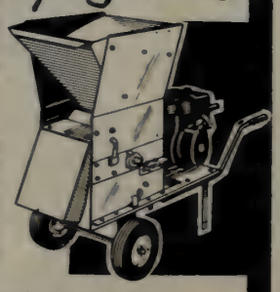

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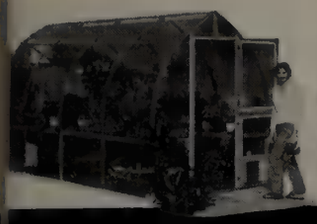

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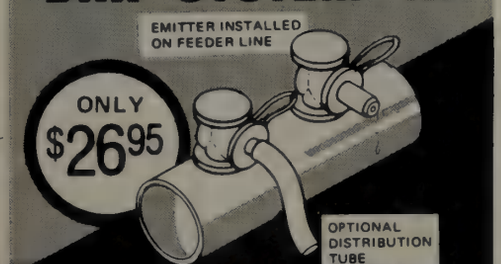

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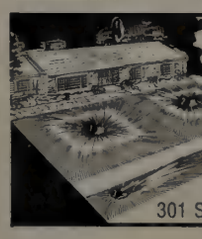

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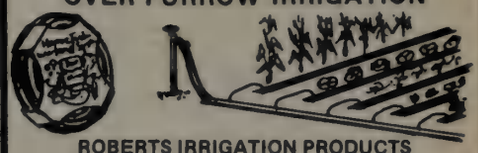

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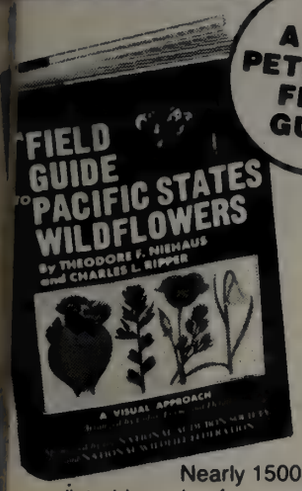

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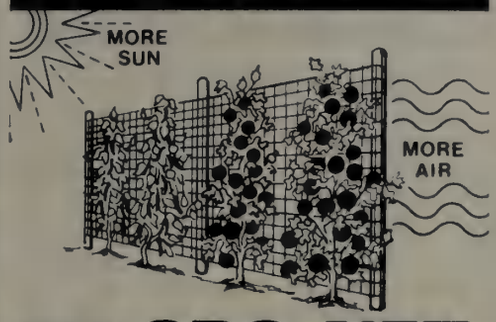

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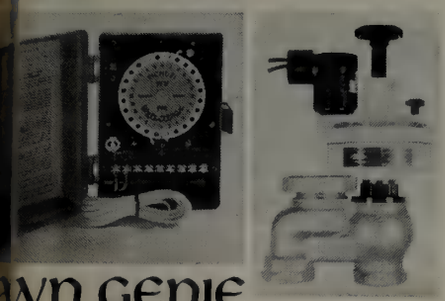

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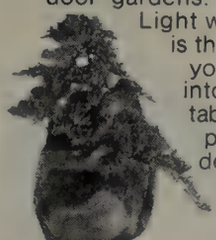

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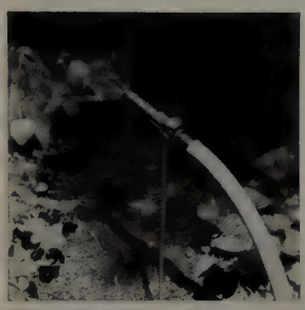

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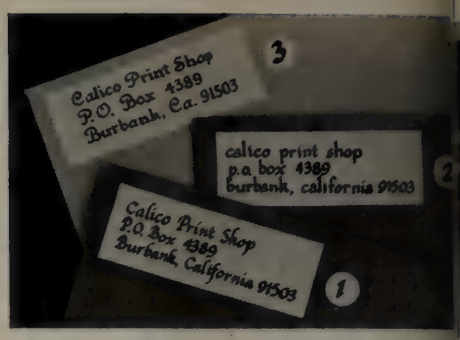

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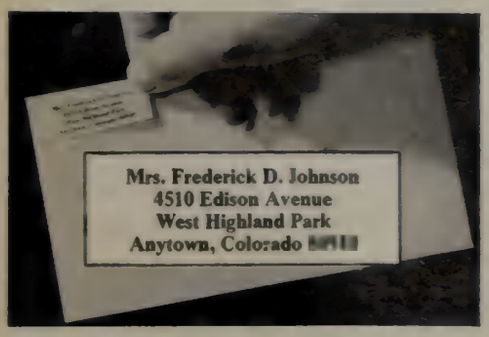

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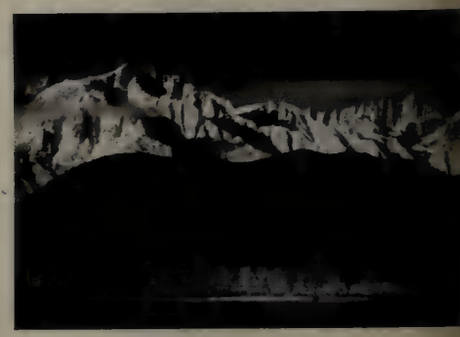

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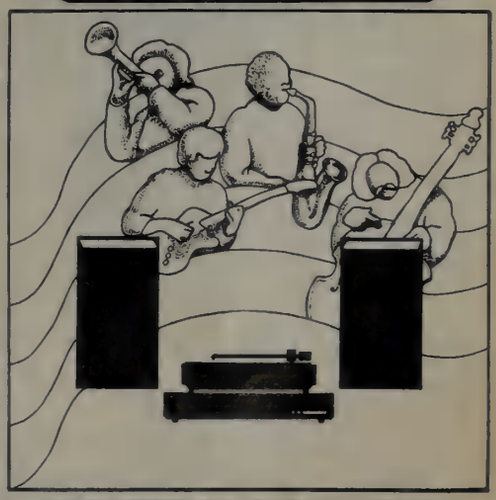

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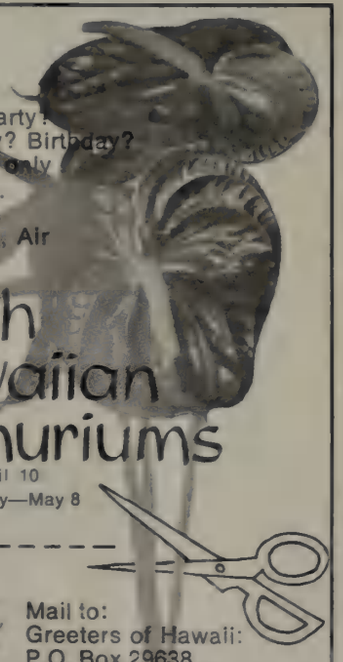

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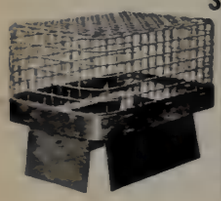

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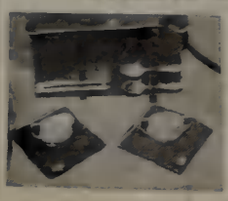

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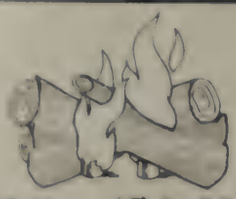

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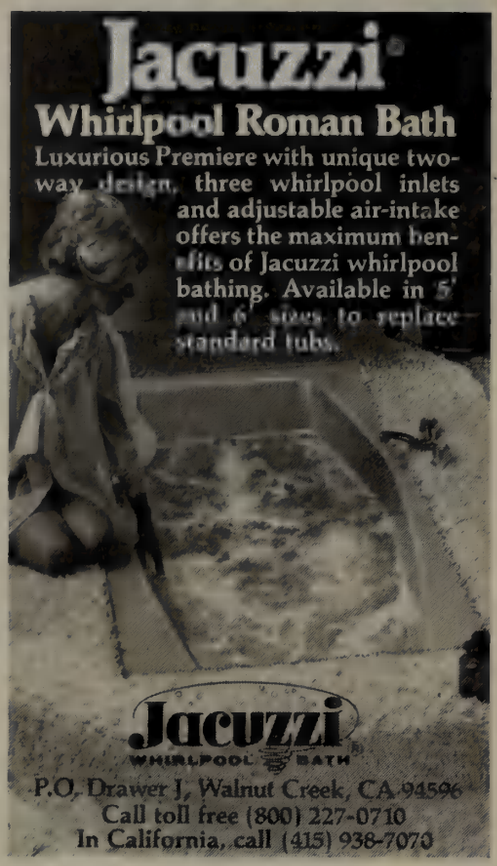

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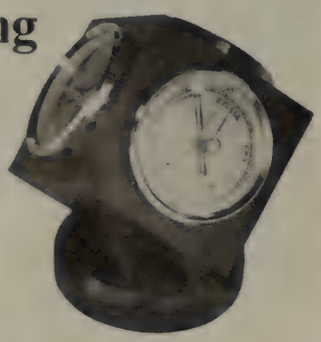

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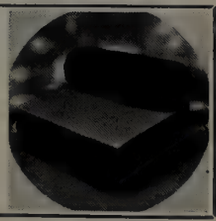

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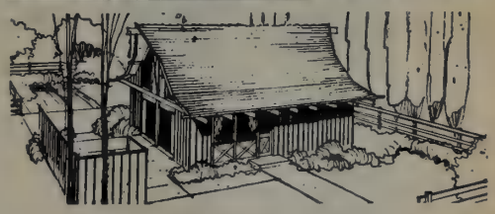

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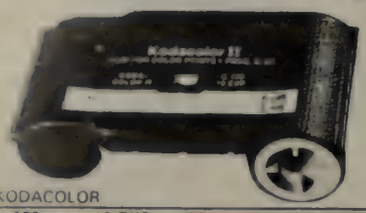

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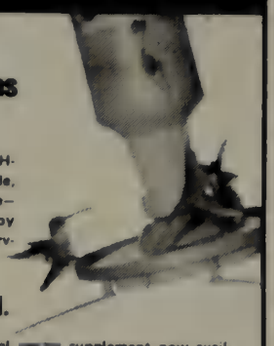

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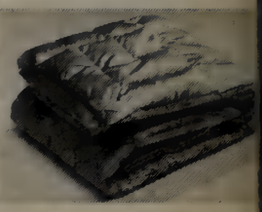

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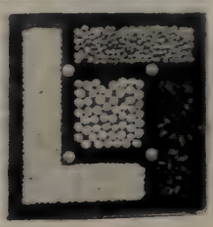

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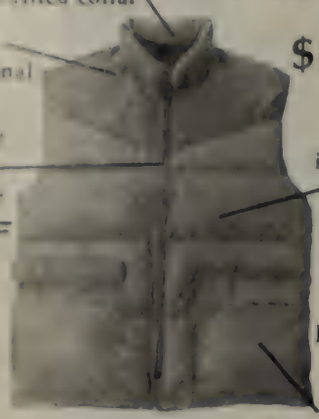

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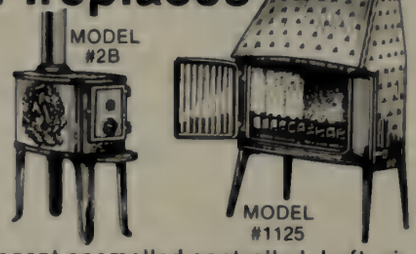

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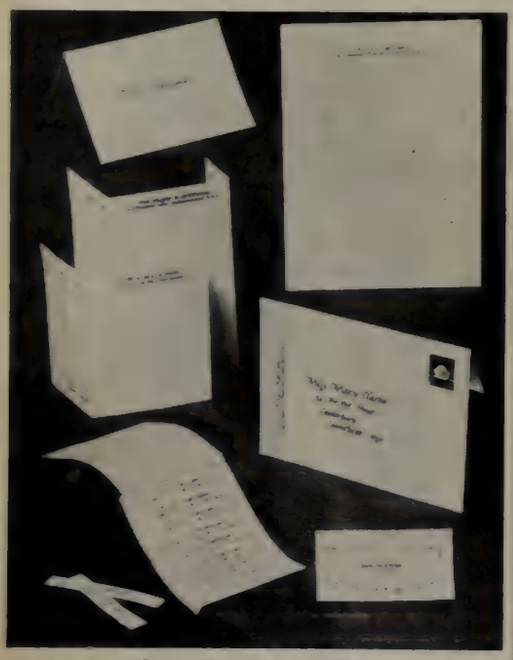

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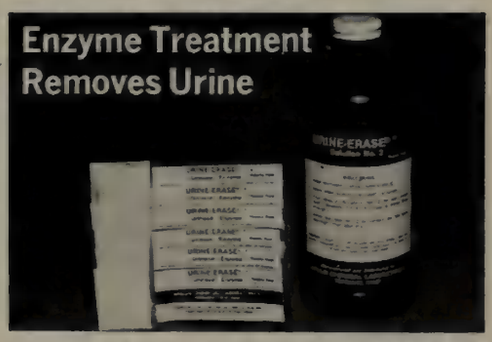

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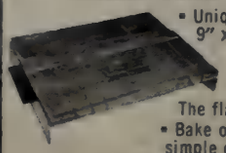

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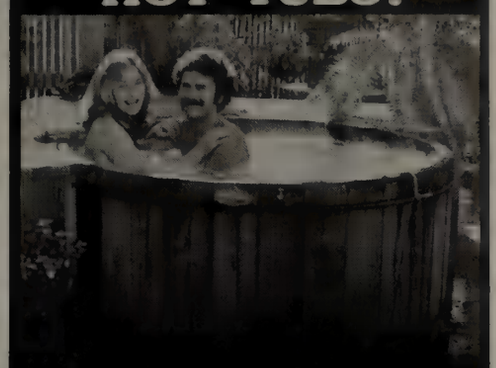

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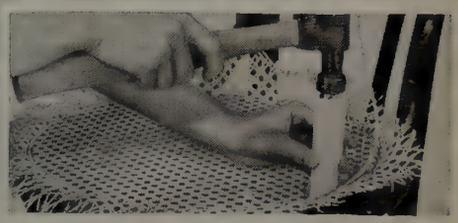

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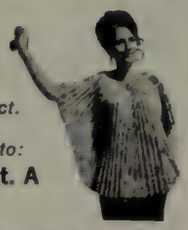

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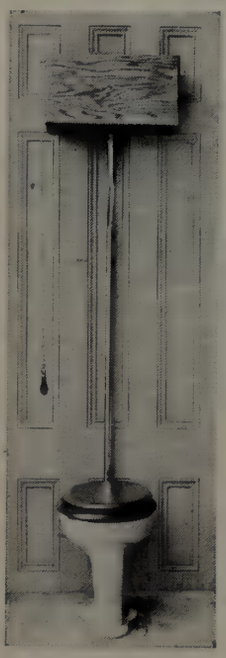

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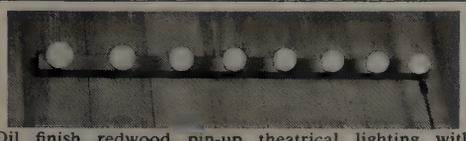

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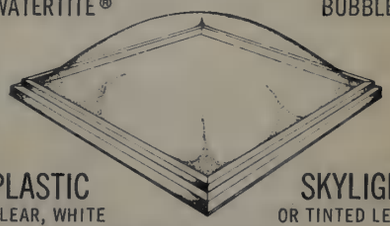

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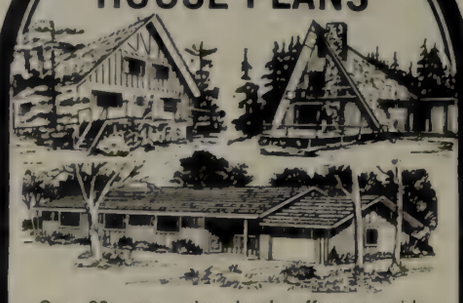

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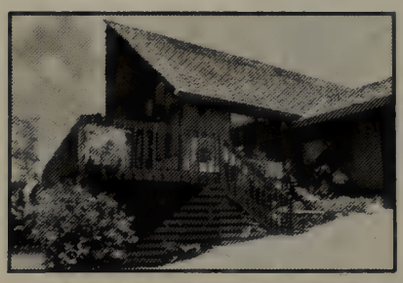

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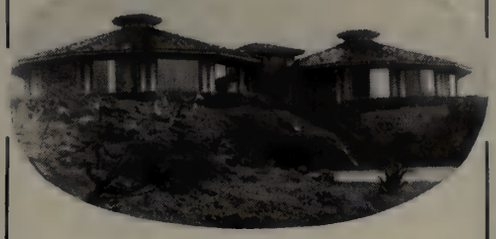

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LETTER FROM *Sunset*

Rocky Mountain states, welcome

This month we say "welcome" to four states that are joining *Sunset* editorial and circulation territory. They will enrich the magazine for a of us, and we will now be serving the entire 13-state West.

Readers in Montana and Wyoming will receive our Northwest editior Colorado our Central edition, and New Mexico our Desert edition. Th first thing these readers may notice is a drop in price. As part of ou circulation territory, they will pay less for the magazine and find copie more available at local newsstands (outside our territory, prices ar higher and newsstand distribution is very restricted).

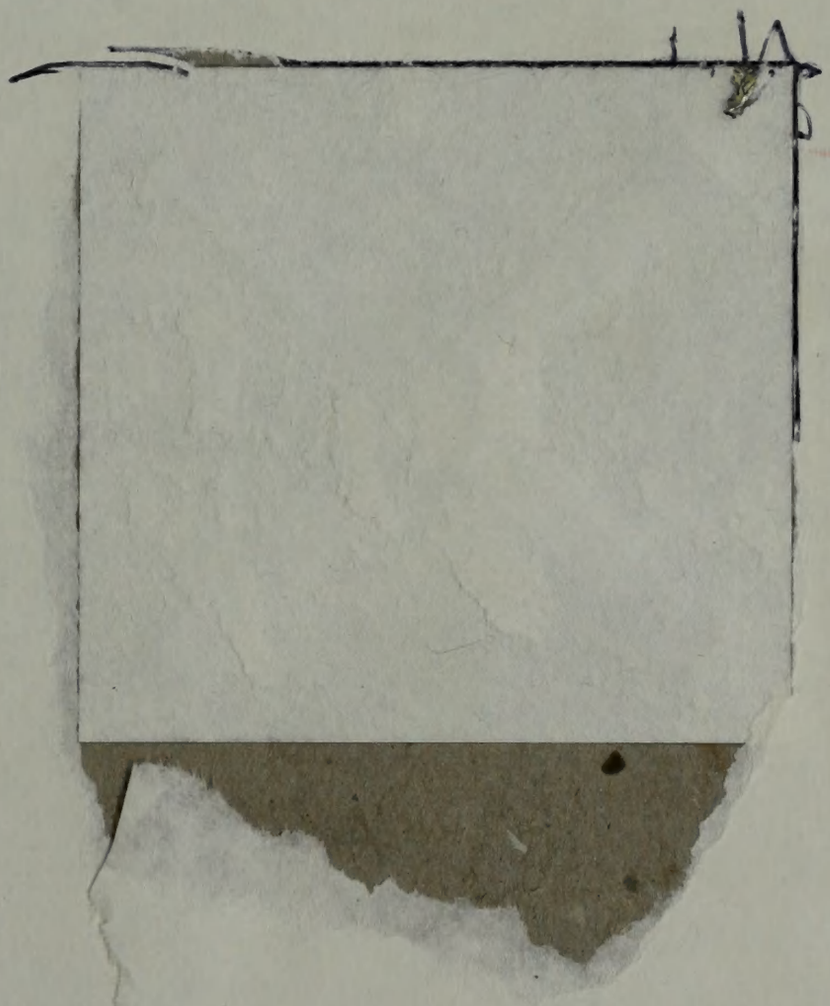
Also, Rocky Mountain readers will begin to see more editorial coverag of their states in *Sunset*. As the year progresses, we will start includin ideas from their homes, remodels, gardens. We will include more of th area's travel destinations and events. We'll welcome recipes from Rock Mountain readers. We will devote more space to gardening at high alti tudes and with a short growing season. Of course, we will continue t serve in a major way the mild-climate regions of the Pacific states– that's where some 90 percent of the West's population (and our reader now reside—but we have already started more scouting and research i the Rocky Mountain states.

Over the years, we've noticed more and more Rocky Mountain hom owners adapting ideas from the West Coast—opening up houses to th garden, bringing in more light, planting natural gardens. But the mour tain region also has its own share of ideas and attractions for the coast states: the foods and the adobe houses of New Mexico, the year-roun mountain homes of Colorado, the rugged outdoor life styles and recrea tion activities of Montana and Wyoming, the many beautiful nationa parks (including the nation's first, Yellowstone), pioneering work wit solar architecture.

Fortunately, our reporting will not start from scratch. For years we'v covered the intermountain states of Idaho, Nevada, and Utah. W already have a number of loyal Rocky Mountain readers—many o them have renewed their higher-priced subscriptions year after year Year before last, as an experiment, we began selling *Sunset* on news stands in a few locations in Colorado and New Mexico. In the last fiv years our circulation in the Rocky Mountain states has just abou tripled, a faster rate even than on the West Coast.

We have also frequently reported travel ideas from these states: majo articles on powder skiing in Colorado, summer holidays and opera i Santa Fe, national parks in Montana and Wyoming. The biennia A.I.A.-*Sunset Magazine* Western Home Awards program has alway included these four states. And we have an important business interes in the area: Our circulation fulfillment operation is handled by th sophisticated computers of Neodata Services in Boulder, Colorado.

We feel we'll be on familiar and friendly ground with many reader who live a very Western life in Montana, Wyoming, Colorado, anc New Mexico. We hope they are as excited about *Sunset's* Rocky Moun tain coverage as we are.

WINDOW ON THE WEST: *Rockies variety*

The Rockies hold a startling variety of scenery, architecture, and history. In Montana's Glacier National Park, tall-stemmed bear grass attracts a hiker. In Wyoming's Shoshone National Forest (the nation's oldest), trail riders cross a grassy meadow near Grant Peak. Restored Larimer Square adds historic charm to Denver's high-rise downtown. And where the Rockies end in New Mexico, afternoon sun highlights the massive buttresses of the adobe chapel at Ranchos de Taos.